CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Oil pipe line, Texas, Transcontinental Oil Co. making plans, $8,500,000.

Sewers, Pontiac, Mich., Oakland Co. Drain Comrs. plan, $2,750,000.

Hotel, Cincinnati, O., R. A. Casey Realty Co. having plans prepared, $2,000,000.

College and hospital, Philadelphia, Pa., W. E. Herring soon lets contracts, $2,000,000.

Apartment, Detroit, Mich., Owner, c/o R. Furn, archt., having plans prepared, $1,500,000.

Apartment, Los Angeles, Calif., Lilly-Fletcher Syndicate having preliminary plans prepared, $1,250,000.

High School, Glendale, Calif., Bd. Educ. having plans prepared group of buildings, $1,200,000.

Sugar refinery, North Kansas City, Mo., Corn Products Refining Co. having plans prepared, $1,000,000.

Hospital, home, San Antonio, Tex., Woodmen of the World, Omaha, Neb., have purchased site and plan hospital addition, $1,000,000.

Irrigation, San Antonio, Tex., San Antonio Suburban Irrigated Farms, plans improvements, $1,000,000.

Church, Washington, D. C., Allen & Collins, archts., take bids about Oct. 15, for Universalist Natl. Memorial Church, $1,000,000.

Office, Cincinnati, O., Western & Southern Life Insurance Co. having plans prepared, $1,000,000.

Nurses home and hospital, Waukegan, Ill., H. J. Gaul, archt., soon lets contract $1,000,000.

Bank and office, Pontiac, Mich., Peoples State Bank having plans prepared, $1,000,000.

Contracts Awarded

Hotel and club, Chicago, Ill., Bryn Mawr Beach Building Corp., masonry contract to W. B. Ewer, archts. est. $4,050,000.

Apartment, Chicago, Ill., K. W. Vitzhum & Co., archts., general contract to Callner Constr. Co., archts. est. $2,000,000.

Apartment Hotel, Chicago, Ill., Lowenberg & Lowenberg, associated archts., masonry contract to Adolph Lindstrom Co.; plumbing to H. Litvin, archts. est. $1,500,000.

Paving, Chicago, Ill., Cook Co. Highway Dept. to W. A. Black & Co., A. Ward & Son, Lansing and others. Grand total $1,107,715.

Office, Cincinnati, O., Fountain Square Building Co., to J. and F. Harig, $1,000,000.

News of the Week

Water Works

Proposed Work

Tenn., Crossville—Making plans waterworks. $100,000. Carolina Eng. Co., engrs. Noted Dec. 9.

Minn., Kimball—L. Engel, village clk., plans complete waterworks. $20,000. Engineer not announced.

Kan., Irving — Soon takes bids waterworks improvements. $25,000. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City, Mo., engrs. Noted Sept. 29.

Neb., Lawrence—Making plans waterworks. $25,000. Nixon & Reynolds, Grain Exch. Bldg., Omaha, engrs.

Mo., Hamilton—Making plans improving waterworks. $30,000. Burns & McDonnell Eng. Co., Interstate Bldg., Kansas City, engrs.

Mo., Marceline—Making plans improving waterworks. To exceed $15,000. Black & Veatch, 700 Mutual Bldg., Kansas City, engrs. Noted Sept. 22.

Tex., Amarillo—Plans waterworks improvements, incl. sinking 3 wells and laying 24 in. steel flow pipe from wells to reservoir, on Word Ranch, point 18 mi. southwest of here. $400,000. Wynkoop Kiersted, Interstate Bldg., Kansas City, Mo., engrs.

Tex., Galveston—Making preliminary surveys, etc. 8 or 12 in. mains from here to Pelican Island $25,000. C. A. Holt, city engr.

Tex., Marshall—Making surveys waterworks. incl. mains, new pumping equipment. $50,000. B. F. Meyer, Marshall, engr.

Tex., McAllen—Central Power & Light Co., c/o Frost Bldg., making plans large watermains and fire plugs in various streets. Will probably purchase pipe and plugs and install by day labor. $25,000. Private plans.

Okla., Kingfisher — Making preliminary plans new water supply, incl. impounding reservoir, filter plant, and pumping equipment. $150,000. C. R. Steele, Kingfisher, engr. Noted Jan. 21.

Okla., Eldorado — Voted $91,000 bonds, new waterworks, incl. triplex pumps and motor, 60,000 gal. tank on tower, 39,700 ft. 4- to 8-in. c.i. pipe, etc. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs. Noted June 2.

Okla., Mangum — Making preliminary plans new drilled well water supply. $75,000. E. W. Gantt, 1116 West Main St., Oklahoma City, engrs. Noted July 14.

Okla., Mulhall — Voted $20,000 bonds, complete new water works. F. B. King, Grain Exch., Oklahoma City, engr. Noted Dec. 9.

Colorado—Trustees Pueblo, Water Wks., c/o D. P. Porter, 319 West 4th St., Pueblo, and Comrs. Pueblo Pub. Waterworks 2, c/o S. W. Glasser, 119 East Abriendo Ave., made surveys two retaining reservoirs in Soguache Co., and 4,200 ft. tunnel, 250 cu. ft. per sec. capacity, in Custer Co. $70,000.

Calif., Armona—Making surveys domestic water and fire protection system. $15,000. or more.

Calif., San Rafael — Marin Municipal Water Dist. making surveys filtration plant. $350,000-$500,000. W. F. Langelier, Dept. Sanitary Engineering, engr.

Bids Desired

N. Y., Brooklyn — Oct. 18, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Avenue T, Debevoise, Greene, Highland, Lyme and Maple Aves., Bleecker, Columbia West, and 14th Sts., etc., here.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

N. J., Belmar — Oct. 17, by Mayor and Council, Boro Hall, chlorinating tank, pumping station, sea outfall pipe and necessary appliances, etc. C. W. Birdsall, boro engr.; adv. E. N.-R. Oct. 13.

N. J., Denville—Oct. 26, by Twp. Com., C. Lawrence, chn., Town Hall, water supply and distribution system. G. W. Knight, 147 Prospect St., Passaic, consult. engr.; adv. E. N.-R. Oct. 13.

N. J., Skillman — Oct. 31, by C. N. Leathem, state archt., State Bldg., Trenton, 120 ft. steel water tower at Skillman Epileptic Village, here, for Institutions & Agencies, Trenton.

Pa., Phila.—Oct. 18, by Dept. Pub. Wks., Bureau of Water, steam heating systems Belmont Mechanical Filters, Contr. 806; 100,000 lb. pig lead, Contr. 900; Torresdale Pumping Station, Contr. 901; and 300 fire hydrants, etc., Contr. 903. G. H. Biles, dir.

W. Va., Parkersburg—Oct. 26, by City Council, drilling, equipping, testing and placing in operation wells along Ohio River adjacent to pumping station to produce minium yield, incl. that from 3 existing wells of 6 m.g.p.d. Morris Knowles, Inc., 507 Westinghouse Bldg., Pittsburgh, Pa., engrs.

Md., Rock Hall—Oct. 17, by Mayor and Councilmen, c.i. mains, pumping equipment, and steel water tank. Kastenhuber & Anderson, P. O. Drawer R., Easton, engrs.; adv. E. N.-R. Oct. 13.

Ky., Ashland—Nov. 14, by Water Comm. rein.-con. reservoir. Alvord, Burdick & Howson, 1417 Hartford Bldg., Chicago engrs.; adv. E. N.-R. Oct. 13.

Mo., St. Louis—Nov. 1, by Bd. Pub. Serv. 208 City Hall, low and high pressure electrically and hand operated gate valves $86,000; also two 42 in., two 48 in. and one 54 in. water meters with corresponding venturi tubes, $23,000, for Missouri River Waterworks Station. L. Day, dir.

Tex., San Antonio — Oct. 21, by City Comrs. & Water Bd., 20 m.g. steam turbine-engine, pump and boiler for Market St. Station. $75,000. Address W. D. Masterson, pres, Water Bd. or I. Ewig, city engr.

Contracts Awarded

Ala., Birmingham—Alabama Water Serv. Co., E. Fies, pres., Amer. Trust Bldg., 5 mi. mains, 200,000 gal. reservoir and 100,000 gal. standpipe in Prichard, also 4 mi. mains, 25,000 gal. reservoir, and 60,000 gal. standpipe at Collinsville, etc., to Phenix Eng. Co., subsidiary of owners, $75,000 and $60,000 respectively.

La., Monroe—City Comrs., Town Hall, Sept. 21, buildings and structures for waterworks, to B. E. Buffalve Co., 658 East St., Memphis, Tenn., $217,543; filter equipment, to Roberts Filter Co., Darby, Pa., $29,390; pumping and electrical equipment to Walter Castenedo, Canal-Commercial Bldg., New Orleans, $16,871; cast iron pipe, to U. S. Cast Iron Pipe Co., Amer. Trust Bldg., Birmingham, Ala., $120,991; distribution system, to W. H. O'Toole, Alexander, $39,891; hydrants and valves, to R. D. Wood Co., 400 Chestnut St., Phila., Pa., $11,085; and steel tanks, to J. S. Schofields Sons Co., Bway. St., Macon, Ga., $27,800. Grand total $463,571. Noted Sept. 1.

Tenn., Gainesboro—Waterworks distribution system, to W. L. Hailey & Co., 42nd St., Nashville. Engrs. est. $15,000. Noted Sept. 29.

Mich., Detroit—J. E. Mills, comr. Purchases & Supplies, Marquette Bldg., to R. D. Wood & Co., 400 Chestnut St., Phila., Pa., 20,000 ft. B and S sand spun Class 150-8 in. water pipe at $0.7448 per ft., 28,000 ft. B and S sand spun Class 150 6 in. at $0.519; to U. S. Cast Iron Pipe & Fdry. Co., Pearl St., Burlington, N. J., 2,000 tons 30 in. Class C at $37.50, 2,500 tons 36 in. Class C $37.50, 94,000 ft. 8 in. De Lavaud pipe $0.695, and 96,000 ft. 6 in. De Lavaud

See proposal advertising on page 161

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

"The World's Playground" has used Leadite with complete satisfaction for over 20 years

ATLANTIC CITY, New Jersey, is proud of its well-paved streets. In laying new or additional cast iron mains, the engineers always use Leadite. They know from the experience of nearly one-quarter of a century that Leadite joints are absolutely secure and that the occasion will not arise where paved streets have to be dug up to repair the line.

In addition to the mains under the paved streets, Leadite was used for jointing the 24" main that runs under the famous boardwalk.

Other lines run through salt marshes, over bridges and under numerous railroad tracks.

The sizes of these mains run from 4" to 48".

Mr. L. Van Gilder is Engineer and Superintendent of the Atlantic City water department.

Added to the security and permanence of Leadite joints there is a saving of 75%.

For its economy—permanence—security—and the speed with which jointing can be finished—Water Works men specify and use Leadite.

Laying 24" c. i. water mains, with Leadite Joints, in Atlantic City under paved street.

Specify and use LEADITE —it saves at least 75%

Be sure it is LEADITE and accept no imitations ~ ~ ~

The pioneer self-caulking material for c. i. pipe. Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

Waterworks (Continued)

$0.485; to Lynchburg Fdry. Co., Peoples Bank Bldg., Lynchburg, Va., 500 tons 30 in. Class C $37.26, and 500 tons 36 in. Class C $37.26; to National Cast Iron Pipe Co., Tarrant City, Birmingham, Ala., 75,000 ft. 8 in. DeLavaud pipe at $0.695, and 70,000 ft. 6 in. DeLavaud $0.485, to Amer. Cast Iron Pipe Co., Birmingham, 70,000 ft. mono cast 6 in. pipe $0.495 and 75,000 ft. 8 in. mono cast $0.705.

Ill., Glenview—For 6 and 8 in. c.i. mains in various streets, to Widman & Beckham, Milwaukee, Wis., $67,800. Engrs. est. $95,000.

Kan., Buhler—Complete waterworks, distribution and sewerage systems, to C. L. Burt, Hutchinson, $51,463.

Kan., Longton—For 27,155 ft. 2- to 6-in. c.i. pipe, 8,500 lb. specials, 30 gate valves and boxes, 40,000 gal. tank on tower, complete purification plant, etc., to W. B. Carter, Sioux City, Ia., and 1509 East Admiral St., Tulsa, Okla., $39,021; also filter equipment, to E. W. Bacharack & Co., 207 Rialto Bldg., Kansas City, Mo., $5,990.

Tex., Rotan—For 15 mi. watermains and sewerage system, to Orman Constr. Co., Childress, $179,000. Noted Aug. 18.

Colo., Denver—Bd. Water Comrs., 1509 Cleveland Pl., approximately 4,581 ft. 66 in. steel or pre-cast rein.-con. conduit along Clayton St. from 1st Ave. at Capitol Hill Reservoir, to Thompson Mfg. Co., 3001 Larimer St., at $28.15 per ft.

Calif., Riverside—Millar Realty Co., approximately 10 mi. 3- to 8-in. mains and 50,000 gal. red wood tank with 50 ft. tower in Edgement Gardens, to S. Smith, 2025 Bay St., Los Angeles, approximately $75,000.

Sewers

Proposed Work

Conn., Greenwich—Making plans complete sewerage system in Coscob. To exceed $25,000. Private plans.

Conn., Rockville—Plans sewage disposal system. $100,000. C. O. Knight, Rockville, engr.

N. J., Paterson—City appropriated $35,000, storm water drain and reconstructing sanitary sewer in Bridge St. between Bway. and River St., and Arch St. from River St., to Passaic River. H. L. Bristow, clk.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, rejected bids Sept. 28, main sewer in Large St. Will readvertise. G. H. Biles, dir. Noted Sept. 22.

Tenn., Knoxville—Plans 700 ft. 8 x 8 ft. solid rock tunnel to contain 5 ft. concrete, rein.-con. or tile circular sewers in combined storm and sanitary sewer district. $70,000. L. Brownlos, city engr.

Mich., Muskegon Heights (br. Muskegon)—Making plans 6- to 12-in. sewers and ejector station with Duplex 150 gal. shone ejector equipment, Sherman Blvd. and 9th St. $30,000. C. A. Gamble, City Hall, engr. Noted Sept. 15.

Mich., Pontiac — Oakland Co. A. W. Spencer making plans 11 mi. trunk and sub-trunk sewers in Southfield Park, Eight Mile, Nine Mile, Ten Mile, Eleven Mile, and Southfield Rds. near Detroit city limits, emptying into branch Rouge River. $2,750,000.

Neb., Havelock—W. C. Frampton, 409 Little Bldg., Lincoln, making plans 3 mi. 15 and 24 in. sewers and disposal plant in Sanitary Dist. 1, $50,000. Scott & Scott, 427 Bankers Life Bldg., Lincoln, engrs.

Tex., Miami—Making surveys complete sewerage system. $45,000. Devlin Eng. Co., 127 Central Bldg., Amarillo, engrs.

Okla., Ardmore—Made preliminary plans extending 87,100 ft. 8 and 10 in. vitr. clay sewers in Washington, McLish and Oneil Sts. $30,000. S. Mathews, Ardmore, engr.

Okla., Braggs—Made preliminary surveys sewers in 4 mi. various streets. $25,000. E. W. Gantt, 1116 West Main St., Oklahoma City, engr.

Okla., Eldorado — Voted $43,000 bonds, sewerage system, incl. Imhoff tank, etc. Benham Eng. Co., 521 Gumble Bldg., Kansas City, Mo., engrs. Noted May 26.

Okla., Oklahoma City—Making preliminary plans 25,000 ft. 8 to 12 in. concrete sewers in Show Heights and Wallace Heights Additions. $33,800. B. M. Hart, City Hall, engr.

Okla., Olustee—Made preliminary plans sewers throughout city. $30,000. Engineer not selected.

Okla., Tonkawa—Made preliminary plans storm sewerage system in various streets in business section. $45,000. F. H. Kilburn, Tonkawa, engr.

Calif., Gustine—Making plans 2,800 lin.ft. 20 in. sewer in various streets. A. E. Cowell, Merced, engr.

Calif., Oakland—Made plans 3,795 lin.ft. 8 in. vitr. sewer, etc. in Buckeye Ave., etc. G. N. Randle, city engr.

Bids Desired

N. Y., Long Island City—Oct. 20, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Rockaway and Woodhaven Blvds., Skillman, Laurel Hill, Van Alst, Halle, and 107th (Roanoke) Aves., 212th, 138th, 127th, 77th, 64th (10th) Sts., etc.

Md., Baltimore—Oct. 19, by Bd. Awards, storm drains in Dists. 50 and G-13, Storm Water Contr. 103. M. J. Ruark, 311 Courtland St., sewerage engr.

D. C., Wash.—Oct. 18, by District Comrs. 4.063 lin.ft. 12 in. to 4 ft. sewers in various streets.

S. C., Greenville — Oct. 18, by Greater Greenville Sewer Dist. Comn., E. H. Fry, supt., approximately 11,500 ft. 15- to 24-in. sewer from junction recently constructed 18 in. line along Richland Creek and 36 in. line now nearing completion from sewage treatment plant along Reedy River to mouth of Richland Creek, etc., also electrical equipment in sewage treatment plant.

O., Cincinnati—Oct. 18, by C. O. Sherrill, city mgr., City Hall, 1,280 lin.ft. 30 in. sewer in ravine south of Yoast St. between Baltimore Ave. and McHenry Rd., brick $32,550 or concrete $32,550.

Ill., Chicago — Oct. 18, by Bd. Local Impvts., Room 207 City Hall, drains in portions 16 streets and avenues; water service pipes in portions 13 streets and avenues; also sewers in portions 13 streets and avenues. M. J. Faherty, pres.

Tex., Amarillo—Oct. 18, by City, c/o J. D. Bartlett, mgr., 6- to 18-in. vitr. or concrete sewer in San Jacinto, Roberts Pl., Country Club and Old Town additions. $100,000. H. B. Jones, city engr.

Contracts Awarded

Pa., Allentown—At office M. W. Gross, mayor, Central Fire and Police Station, constructing Klines Island Sewage Treatment Plant, Contr. 1, to S. U. Hopkins, 551-5th Ave., New York City. Noted July 21.

Pa., Allentown—M. W. Gross, mayor, pumps for sewage treatment plant, Contr. 2, to Starkweather & Broadhurst, Inc., 79 Milk St., Boston, Mass. Noted Aug. 18.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, main sewers in Hellerman St., to W. H. Yetman, Lincoln Bldg., $112,200; Tabor Ave., to McIntyre Constr. Co., 6811 North Franklin Ave., $8,195; and Tabor Ave., to P. and A. J. Ellis, 4th and Wyoming Sts., $70,171. Grand total $190,566. Noted Sept. 22.

Md., Baltimore—Bd. Awards, sanitary sewers and storm drains in Dists. H-6 and H-13, Sanitary Contr. 245, to N. Martell, 4400 Vesta Ave., $58,814. Noted Sept. 22.

Miss., Magee—Approximately 2 mi. 4- to 8-in. c.i. mains and 8 in. sewers in various streets, to B. E. and V. Walker, Magee, $31,899.

La., Shreveport—W. T. Mayo, comr. Pub. Utilities, City Hall, will construct Sect. 1, South Highlands, Broadmoor, Cedar Grove, and Jewella trunk sanitary sewer, $98,000; Sects. 2 and 3, to R. T. Myers Co., Meridian, Miss., $79,451; also pumps and equipment one at Old River and one at Cedar Grove Pumping Stations, to D. Nicoll Co., Dallas, Tex.; $12,000. Noted Sept. 8.

Tenn., Knoxville—Div. Pub. Serv., 22,000 ft. 8 in. rein.-con. sewer and 900 ft. 10 in. vitr. clay river outfall in Mountain View Sewer Dist., to G. M. Ferris, Knoxville, $38,409. Noted Sept. 22.

Ky., Louisville—Commission of Sewerage of Louisville, Bd. Trade Bldg., 5,800 ft. 5½ ft. x 5½ ft. semi-eliptical rein.-con. sewers in open ditch, also junction chambers, manholes, etc. in Bohannon Ave., Letting, 28 to S. O. Longley Co., Belspring, Va., $196,400.

O., Canton—Sewer in 2nd Sect. Steelton sub-district north of Mahoning from Schenley to Meridan, to J. Horan, Youngstown, $27,621. Engrs. est. $25,000.

O., Hamilton—G. E. Mitchell, sewer dir., East End Storm Sewer, reinforced monolithic concrete pipe, etc., to Andrews Asphalt Paving Co., Hamilton, $298,600.

Ind., Hammond—Constructing Sewer 66, in 33rd St., to Barnes Bros., Gary, $104,503.

Ind., Indianapolis — Bd. Pub. Wks., Michigan St. Sewer, to Sheehan Constr. Co., 207 Holliday Bldg., $129,832. Engrs. est. $130,807. Noted Aug. 4.

Mich., Clavrson — Village and Oakland Co. (Pontiac), for Clawson East Side Drain, 10,000 ft. 60 in. concrete pipe, to R. D. Baker, 1631 Elmhurst Ave., Detroit, $261,985.

Mich., Detroit — Dept. Pub. Wks., concrete or vitr. sewers in Lateral Sewers 4917 and 4914, to Louwers & Somerville, 1224 Michigan Theatre Bldg., $10,400; Lateral Sewers 4811 and 4812, to Liberty Constr. Co., Amer. State Bank Bldg., $26,538; Lateral 4913, to Blanck & Gargaro, 40 Seven Mile Rd. E., $1,495; Laterals 4918 and 4921, to Western Constr. Co., 5123 Wesson Ave., $2,107; Lateral 4919, to F. Di Vito, 516 Transportation Bldg., $7,267; and Lateral 4920, to Detroit Drainage Constr. Co., Meyers Rd., $10,945. Grand total $58,752.

Mich., Detroit—Dept. Pub. Wks., monolithic concrete sewer in Vernor Highway Arm and Goethe Ave. Arm to Blanck & Gargaro Co., 40 Seven Mile Rd. E., $133,926 and $76,437 respectively. Noted Sept. 22.

Mich., Halfway — A. J. Wendt, village clk., sewers in Sewer Dist. 3, Contr. A, to Waterway Constr. Co., 3608 Riopelle St., Detroit, $180,917; Contr. B, to Liberty Constr. Co., Royal Oak, $64,032. Noted Sept. 15.

Mich., Mt. Clemens — Macomb Co., for Martin Drain, monolithic concrete, 1 mi. double box section, 6½ x 8 ft., Sect. A, to Bishop & Weir, 955 East Jefferson Ave., Detroit, $215,720; 8,000 ft. 8 ft. 10 in. x 8 ft., Sect. B, to S. J. Fattore, 1118 Lafayette Bldg., Detroit, $270,194; 13,400 ft. 3 ft. to 6 in. part open cut and part tunnel, Sect. C, to T. D. Nolan, 14101 Plymouth Ave., Detroit, $348,480; and 2 mi. Sect. D, to S. A. Healy, 1007 Amer. State Bank Bldg., Detroit, $363,321. Grand total $1,197,715.

Ill., Glenview—For 8- to 15-in. sewers in various streets, to Widman & Beckman, Milwaukee, Wis., $34,190. Engrs. est. $55,000.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., to Zimmerman & Zimmerman, 3402 Wisconsin Ave., main sewer in Chambers St. $39,001, 15th Ave. $1,410, Griffin St. $5,280, 60th St. $11,826 Gruber Ave. $32,866, and Townsend St. $673; to Wenzel & Henoch, 49th and State Sts., Dickinson St. $32,575, and Vollmer Ave. $240; to M. D. Derroz, 457 Mineral St., 1st Ave. $2,811; to Milwaukee Sewerage & Drainage Co., 928 Humboldt Ave., Roosevelt Dr., $1,157; to W. T. Werner, 675 Hi. Mount Blvd., 62nd St., $2,760; to Rousch & Busse, 918-44th St., 66th St. $7,056, Stevenson St. $4,447, and Sunnyside Dr. $1,267; also to Clayton Constr. Co., 5102 Burleigh St., 63rd St. $166,639. Grand total $310,008.

Kan., Buhler—See "Waterworks."

Mo., St. Joseph—To O. H. Schmidt, Bartlett Bldg., main sewers in 11th and Corby Sts. $12,838, Dist. 23 $321, and Dist. 52 $444; to A. A. Davis & Co., 403 Westover Bldg., Kansas City, Brookdale Relief Sewer, $462,150; to E. F. Mignery, 1108 Bellevue St., Dist. 139 $1,984; to H. Devlin, 308 Felix St., Dist. 30 $674; and to W. B. Kelley, Bartlett Bldg., Dist. 172, $3,346. Grand total $481,657.

Tex., Ft. Worth — Sewers in Brooklyn Heights, to McKenzie Constr. Co., 716 Travis Bldg., San Antonio, $38,317.

Tex., Rotan—Sewerage system, to Orman Constr. Co., Childress, approximately $70,000. Noted Aug. 18.

Calif., Los Angeles—Supervs. Los Angeles Co., sewers in Drainage Dist. Impvt. 21 (Montebello Dist.), to Callahan Constr. Co., 730 Industrial St., $185,954. Noted Sept. 22.

Calif., Santa Ana—Concrete sewers and c.i. mains in Main and West Edinger Sts., etc., to Lana Contg. Co., La Habra, $82,170.

Calif., Santa Cruz—Concrete sewer, etc. in Pilkington Lane, etc., to C. E. Prentiss, San Jose, $30,059.

Bridges

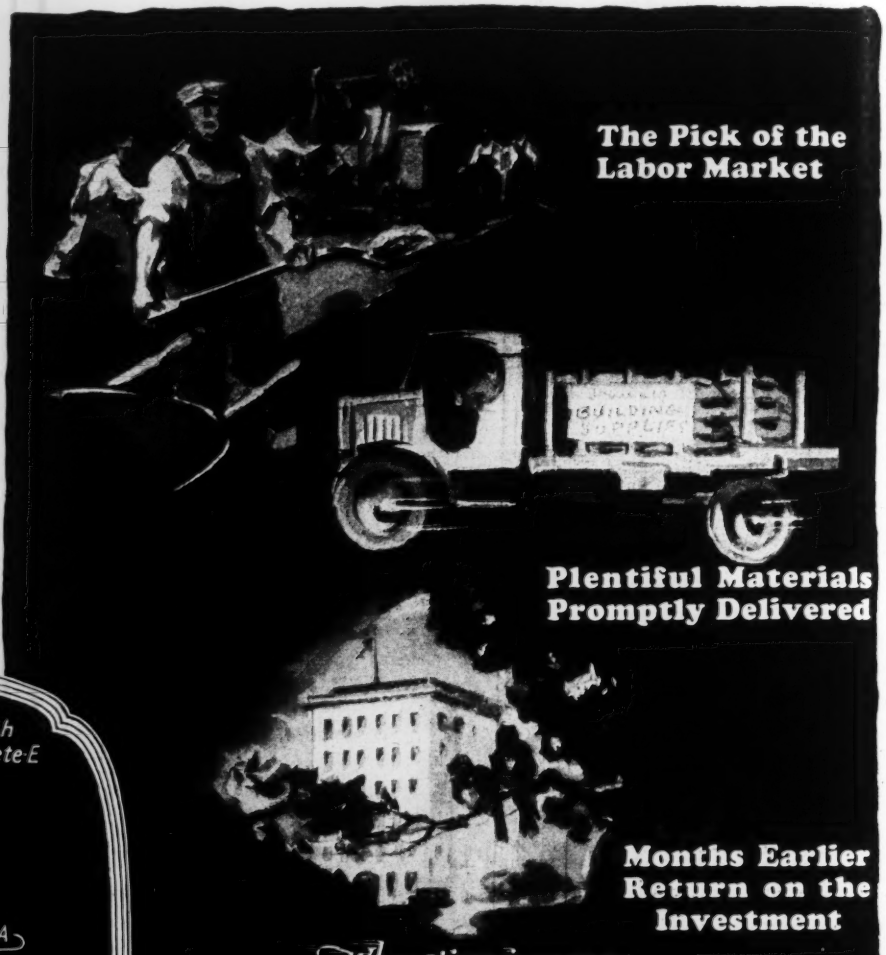
Proposed Work

Tennessee—State Hy. Dept. & Pub. Wks., Nashville, takes bids about Dec. 15, bridge over Clinch River, at Kyles Ford, Hancock Co. $65,000. C. N. Bass, comr.

Tenn., Providence — Montgomery Co. (Clarksville), and State Dept. Highways, Nashville, making surveys concrete bridge over Red River, on State Road 76, near here. $60,000 available. Montgomery Co. and State Hys. & Pub. Wks., Nashville, engrs.

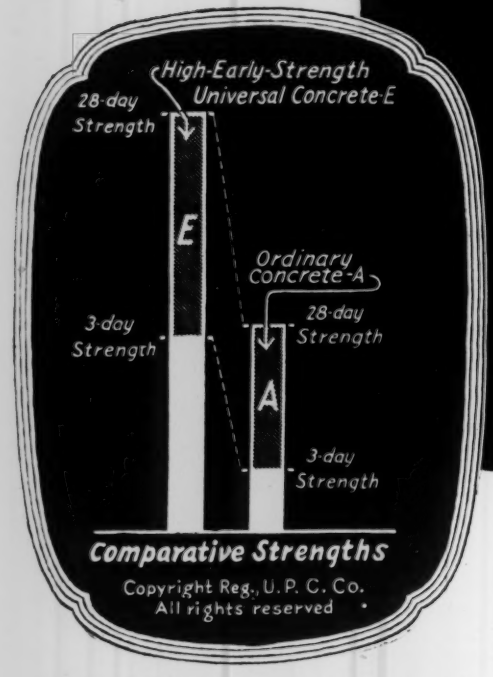
Ill., Galesburg — Bd. Supervs. Road & Bridge Comn., Knox Co., rejected bids Sept. 29, 14 rein.-con. and steel bridge, culverts, etc. $25,000. A. R. Smith, Galesburg, engr.

Constr. News page 190



When time is money . . .

use High-Early-Strength concrete made with standard (not special) Universal Cement



Winter building keeps organization intact, takes advantage of plentiful labor and materials and assures completion of the job months earlier than would otherwise be possible. *High-Early-Strength* Universal Concrete makes winter building even more practicable than before. For details, send in the accompanying coupon.

UNIVERSAL PORTLAND CEMENT CO.
210 South La Salle Street, Chicago.

Without obligation, please send me detailed information on methods for securing strong concrete in 3 *days* with the usual materials.

Name .....

Address .....

ENR 10-13-27

Now It Is Even Easier to Gain These Advantages for Winter Work

Aside from keeping materials at a warm temperature, the principal requirement in cold weather concreting is to protect the work from freezing.

Because *High-Early-Strength* Universal Concrete is as strong at *3 days* as ordinary concrete at *28 days*, it shortens the period during which this protection is necessary, and hastens removal of forms.

And because *High-Early-Strength* Universal Concrete has a higher *ultimate* strength in addition to a higher *early* strength it is *permanently* better and stronger than ordinary concrete (as shown by the diagram).

High-Early-Strength Universal Concrete is made by using fully tested methods with the usual materials, usual labor, usual equipment, and standard—not special—Universal cement. For details send in the accompanying coupon.

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

Concrete for Permanence

Bridges (Continued)

Minnesota and North Dakota — Wilkins Co. (Breckenridge), Minn., Richland Co. (Wahpeton), N. D., and State Hy. Dept., St. Paul, Minn., and Bismarck, N. D., plan replacing present bridge with steel bridge over Red River de Sioux River. $120,000. C. A. Seffens, Breckenridge, aud. Wilkin Co.

Neb., Nebraska City — Otoe Co. plans steel bridge, on Central Ave. $600,000.

South Dakota—See "Streets and Roads."

South Dakota—State Hy. Comn., Pierre, making plans 254 ft. steel through truss bridge over Boxelder Creek, Harding Co. O. N. Hetle, highway engr.

Mo., St. Louis—Wabash Ry. Co., R. H. Howard, ch. engr., Ry. Exch. Bldg., making preliminary plans approximately 100 ft., concrete and steel bridge, on North Bway. $80,000. Private plans.

Ark., Newport—State Hy. Dept., Little Rock, making preliminary plans bridge across White River, here. To exceed $25,000. Harrington, Howard & Ash, Orear Leslie Bldg., Kansas City, Mo., engrs.

Tex., Del Rio—See "Streets and Roads."

Tex., Galveston—Pelican Bridge Co., c/o W. P. Sweeney, pres. Gulf Coast Dredging Co., plans concrete and timber railroad and vehicular bridge. $150,000. Private plans.

Calif., Modesto — Plans bridge over Tuolumne River. $25,000 or more. F. Rossi, city engr.

Bids Desired

N. J., New Brunswick—Oct. 27, by Bd. Freeholders Middlesex Co., Bridge 190, concrete encased, half-through plate girder, over South River, on South Amboy-Bordentown Rd. W. F. Buchanan, 175 Smith St., Perth Amboy, co. engr.

N. J., Ocean City—Oct. 28, by Ocean City-Longport Automobile Bridge Co., Ocean City Title & Trust Bldg., bridge over Great Egg Inlet, 60,000 cu.yd. dredged embankment, 10,000 sq.yd. concrete and 8,000 sq. yd. asphalt paving, etc. Harrington, Howard & Ash, 1012 Baltimore Ave., Kansas City, Mo., consult. engrs. Noted Sept. 29.

Pa., Pittsburgh—Oct. 26, at office C. C. McGovern, controller Allegheny Co., superstructure for 31st Street Bridge 6, over Allegheny River at Penn Ave. and East Ohio St., Contr. 1.

South Carolina — Oct. 25, by State Hy. Dept., Columbia **(F.A.P. means Federal Aid Project and S.P. State Project)**, overhead timber bridge over Sea Board Airline Ry. tracks, on Route 5, F.A.P. 71, York Co.; rein.-con. bridge route 21, F.A.P. 254-B, Greenville Co.; rein.-con. and steel bridge, Kershaw Co.; rein.-con. steel bridge over Savannah River, Route 20, S.P. S-656-B, between McCormick Co. here and Augusta, Ga.; also steel superstructure and flooring on swing span of Santee River Bridge, on Route 40, F.A.P. 39-B, Charleston and Georgetown Counties.

Ala., Mobile—Oct. 17, by Alabama State Docks Comn., W. L. Sibert, chn., creosoted timber and steel viaduct, 18,500 ft. creosoted and untreated piles, 90 tons structural steel, etc.

Michigan — Oct. 27, by E. L. Cowgill, resident engr., Plymouth, Trunk Line Bridge 1 of 50-12-2, Contrs. 1 x 2, two 50 ft. spans, steel deck girder type, 30 ft. roadway, two 5 ft. sidewalks, Macomb Co., for State Hy. Dept., Lansing.

Illinois — Oct. 19, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, widening two 59 ft. span rein.-con. girder bridge on Route 6, Sect. F-1, Cook Co., 75 ft. steel bridge on Route 7, Sect. 4-B-1, Henry Co.; one 50 ft. rein.-con. girder bridge, two 30 ft., two 100 ft. and one 150 ft. span rein.-con. substructures on Route 10, Sect. 36-B, also two 100 ft. and one 150 ft. steel superstructure on Route 10, Sect. 36-C, all Vermilion Co.; one 50 ft. rein.-con. girder and two 26 ft. rein.-con. slab bridges, also three 10 ft. rein.-con. box culverts on Route 72, Sect. 128-B, De Kalb and Kane Counties; two 16 ft., one 20 ft. and one 30 ft. span rein.-con. slab bridges on Route 81, Sect. 102-B, Henry Co.; one 28 ft. and three 35 ft. span, also two 30 ft. span rein.-con. slab and girder bridges on Route 116, Sects. 113-B and 114-B, Livingston Co.; two 28 ft. span rein.-con. slab bridge and one 42 ft. and one 30 ft. span rein.-con. girder bridges on Route 156, Sect. 102-B, Monroe Co., etc. F. T. Sheets, ch. highway engr.

Wisconsin—See "Streets and Roads."

Iowa — Oct. 18, by State Hy. Comn., Ames, two 200 x 20 ft. high truss spans with two 80 x 20 ft. pony truss spans on Federal Aid Project 306, Des Moines and Lee Counties; 5 culverts and 4 culvert extensions on Primary Project 541, Cedar, Scott and Muscatine Counties; one 70 x 20 ft. pony truss and one 20 x 24 ft. concrete slab bridge also 6 culverts on Primary Project 537, Guthrie Co. B. F. White, ch. highway engr.

Oklahoma — Oct. 24, by R. N. Higgins, engr. Beckham Co., Sayre, 3 steel truss bridges on abutments, one 1 span 40 ft. at Erick, 46.3 tons truss steel, 4.6 tons reinforcing, etc. $25,000; one 1 span 50 ft. at Texola, 52.7 tons truss steel, 6.7 tons reinforcing, etc., $27,000; and other 1 span 60 ft. at Doxey, 58.81 tons truss steel, 8.2 tons reinforcing, etc., $30,000.

California—Oct. 24, by State Hy. Dept., Sacramento, 170 ft. open spandrel arch and six 30 ft. girder approach span rein.-con. bridge over Pollards Creek, point 2 mi. north of La Moine, Shasta Co.; four 30 ft. span bridge over Prairie Creek, also one 40 ft. and two 32 ft. span bridge over Los Man Creek, both near Orick, Humboldt Co.; 40 ft. arch rein.-con. culvert with wing walls, approximately 70 ft. long over Cull Creek, 30 ft. arch culvert approximately 90 ft. long over Palomares Creek, and 20 ft. arch culvert, 90 ft. long, over Hollis Creek, all in Alameda Co. R. M. Morton, Strub Bldg., Sacramento, engr.

Bids Received

New York—A. W. Brandt, comr. Highways, Albany, Oct. 7 **(e. e. means engineers estimate)**, from J. J. Finn & Son, Cuyler Ave., Albany, Normanskill Viaduct and approaches, Delaware Ave., Albany, $284,822 e. e. $343,254; from Albany Bridge Constr. Co., 518 Bway., Albany, 100 ft. girder bridge on Repair Contr. 1667, Highway 619, Sammonsville-Johnstown Rd., Fulton Co., $28,842 e. e. $34,194; from S. G. Dodds, 52 Luzerene St., Rochester, 24 ft. concrete bridge on Repair Contr. 1660, Highway 5400-A, Warsaw-Gainesville Rd., Wyoming Co., $11,209, e. e. $15,521, furnishing 4,500 sq.ft. steel sheet piling on Repair Contr. 16668, Highway 8030, Machias-Yorkshire Rd., Cattaraugus Co., $1,710 e. e. $2,300; from Shepard Constr. Serv., Inc., 1711 Spring St., Syracuse, 75 ft. span girder bridge, on Highway 5384, Repair Contr. 1663, Nicholville-Moria Rd., St. Lawrence Co., $27,346 e. e. $35,766, bridges on Repair Contr. 1661, Highway 5076, Malone Moria, Part 3 and Highway 5284, Nicholville-Moria Rd., Franklin Co., $60,589 e. e. $76,640, bridges on Repair Contr. 1662, Highway 5613, Malone-Chateaugay Rd., Franklin Co., $34,840 e. e. $45,435, and 120 ft. truss span bridge on Repair Contr. 1664, Highway 1100, Indian Lake Co. Line Rd., Hamilton Co., $52,936 e. e. $66,716; from Ontario Constr. Co., Rochester, bridges on Repair Contr. 1665, Highway 389, Maple Ridge Part 1, Orlean Co., $11,400 e. e. $15,096; from A. C. Toaspern & Co., Barryville, 120 ft. bridge on Repair Contr. 1658, Highway 1486, Whitney Point Lyle Rd., Broome Co., $106,771 e. e. $138,465. Noted Sept. 22.

Contracts Awarded

Virginia—See "Streets and Roads."

Georgia—State Hy. Dept., East Point, concrete bridge on Thomasville-Pavo Rd., Thomas Co., to Small & Triplett, Chattanooga, Tenn., $83,542. Engrs. est. $90,000.

Florida — State Road Dept., F. A. Hathaway, chn., Tallahassee, 173 ft. bridge over Atlantic Coast Line and Seaboard Air Line R.R. tracks, Project 573-D, Orange Co., to Cox & Bryson Paving Co., Orlando, $27,930; 40 ft. bridge over Helena Run, Project 661-B, Lake Co., to Albinson Co., Bartow, $16,735; 435 ft. bridge over Haines Creek and Trout Run, Project 695-B, Lake Co., to C. F. McKenzie Co., Professional Bldg., Miami, $50,581; 675 ft. bridge between Keystone Heights and Palatka, Project 706, Putnam Co., to Kidd Constr. Co., Masonic Temple Bldg., Jacksonville, $30,752; bridge over Georgia, Southern & Florida R.R. tracks, Project 717, Bradford Co., to Gillespie & North, Green Cove Springs, $4,672; and bascule span bridge, Project 698-B, to Amer. Bascule Bridge Corp., Pensacola. Noted Sept. 15.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, concrete and steel bridge, on State Bridge Project 5-B, Oblon Co., to Ferguson Constr. Co., 218 South State St., Rockford, Ill. $214,323. Noted Sept. 15.

Tenn., Savannah—State Dept. Highways & Pub. Wks., Nashville, 3 span, 366 ft. bridge over Tennessee River, Wayne Co., here, and 3 concrete overflow bridges approximately 1,200 ft. long, on Crump-Tennessee River Rd., near here, to C. G. Kershaw Constr. Co., Woodward Bldg., Birmingham, Ala., approximately $500,000 and $250,000 respectively. Noted Feb. 17.

Kentucky—See "Streets and Roads."

O., Cleveland—Cleveland Union Terminal Co., C. L. Bradley, pres., general contract 600 ft. steel, concrete and rein.-con. bridge over Cuyahoga River, on Eagle St., to Spencer, White & Prentis, 1200 Washington Bldg., Detroit, Mich.; 1,200 tons structural steel, to McClintic-Marshall Co., Oliver Bldg., Pittsburgh, Pa. Noted Sept. 15.

O., Hamilton—Butler Co., steel bridge replacing old covered bridge, to Standard Eng. Co., 2463 Bway., Toledo, $38,800.

Ind., Indianapolis—Marion Co., Bridge 835, on Wall St. Pike over Eagle Creek, Wayne Twp., to E. F. Smith, 2050 South Harding St., $27,492; and Bridge 836, on Glens Valley Rd. at Shannons Lake, Perry Twp., to McCullon & McCreary, $2,885. Noted Sept. 15.

Iowa—State Hy. Comn., Ames **(B.P. means Bridge Project, P.P., Primary Project and F.A.P., Federal Aid Project)**, 1 bridge and 25 culverts on U. S. Highway 30, P.P. 30, Boone Co., and 1 bridge on P.P. 6, F.A.P. 253, Marion Co., to Wickes Constr. Co., 1441 Bluff St., Des Moines, $28,333 and $21,400 respectively; 13 culverts and extensions on U. S. Highway 30, F.A.P. 20, Monroe Co., to J. J. Grose, Chariton, $3,799; 4 bridges and 19 culverts on P.P. 113, F.A.P. 249-A, Delaware Co., to A. Olson Constr. Co., Waterloo, $56,538; 1 bridge on P.P. 6, F.A.P. 253, Marion Co., to Snyder & Johnson, Humboldt, $25,457; 29 culverts on same road, to F. E. Shackleton, Perry, $13,815; 45 culverts and extensions on B.P. 538, P.P. 212, Franklin Co., to Waugh & Tackman, Clarksville, $20,400; one 80 x 20 ft. pony truss bridge on B.P. 130, Greene Co., to Lundgren-Reis Co., 65 College St., Des Moines, $11,164; one 40 x 20 ft. I-beam bridge, one 16 x 24 ft. I-beam bridge with wood substructure one 60 x 20 ft. pony truss bridge and 9 culverts on Logan and Woodbine Rds., F.A.B.P. 14, Harrison Co., to G. W. Condon, 415 Farnum St., Omaha, Neb., $17,985; two 80 x 20 ft. span pony truss bridge with two 40 x 20 ft. I-beam approaches in Chester, B.P. 103, Howard Co., to Olson Constr. Co., Waterloo, $23,985; 130 x 20 ft. high truss bridge with two 40 x 20 ft. I-beam approaches in Coggon, F.A.B.P. 230, Linn Co., to P. Jayne, 2201 Mt. Vernon Ave., Cedar Rapids, $23,564; 40 x 24 ft. I-beam bridge with two 32 x 24 ft. approaches near Mapleton, B.P. 48, Monona Co., to Knutson Bros., Chariton, $10,450; 12 culverts and extensions on F.A.B. 20, Monroe Co., to Midwest Constr. Co., Des Moines, $5,275; four 40 x 20 ft. span I-beam bridge with 5 ft. sidewalks on B.P. 214, F.A.P. 303, Tama Co., to A. Melberg, 316 South 19th St., Cedar Rapids, $17,810; five 32 x 24 ft. span I-beam bridge, 160 x 20 ft. high truss bridge with six 40 x 20 ft. I-beam approaches, 50 x 20 ft. paving truss bridge addition, also 2 culverts, on same road, to Wickham Bridge & Pipe Co., 27 South 19th St., Council Bluffs, $53,808. Grand total $333,783. Noted Sept. 15.

Wyoming—See "Streets and Roads."

Mo., Springfield—C. A. Dickerson, city clk., 1,577 ft. rein.-con. viaduct, on Grant Ave., to List & Weatherly Constr. Co., 416 Ry. Exch. Bldg., Kansas City, $192,468. Noted Apr. 21.

Texas—State Hy. Comn., R. S. Sterling, chn., Austin, 1.477 mi. steel and concrete bridge over Neches River, on Highway 43, in Anderson and Cherokee Counties, to Sullivan & Davis, Granger, $93,162, engrs. est. $100,000, and one 150 ft. steel truss and seven 29 timber panel approaches on Highway 2-B, Bell Co., to Austin Bridge Co., 1813 Clarence St., Dallas, $31,417, engrs. est. $32,000. Noted May 12.

Texas—See "Streets and Roads."

Tex., Sherman—See "Streets and Roads."

Dams

Proposed Work

Ia., Ft. Dodge—See "Buildings—Industrial."

Bids Desired

Calif., Los Angeles — Oct. 31, by Los Angeles Co. Flood Control Dist., multiple arch dam on Big Dalton Creek, 26,000 yd. excav., 38,000 yd. concrete, etc.

Railways

Proposed Work

Oklahoma—Chicago, Rock Island & Pacific R.R. Co., La Salle St. Sta., Chicago, Ill., C. A. Morse, ch. engr., making surveys 11 mi. railroad extension from Lima to Bowlegs, here. $300,000.

Constr. News page 191

Saves Money in Building Sewers

WHEN the engineer specifies INDEPENDENT Reinforced Concrete Pipe for a sewer project, the city is assured a permanent and efficient sewer, *built by the most economical method.*

The city saves money on material and helps local business. "INDEPENDENT" establishes a special pipe plant near the sewer site and uses local labor and materials, wherever possible. Inspection is facilitated, and delays in delivery are avoided.

Time and labor are saved in laying the sewer. The exclusive "Recessed" joint makes it easier to lay the pipe and seal the joints, even under difficult trench conditions. The entire joint is visible for inspection. Back-filling can follow immediately after joints are sealed. Often, *one* machine can do the digging, laying and back-filling.

When finished, the city has a sewer that will serve for generations. The final saving is in the upkeep cost—a long and successful record proves that INDEPENDENT Concrete Pipe Sewers require little or no maintenance.

Every year more American cities are solving their sewer problems, permanently and at low cost, by laying INDEPENDENT Concrete Pipe Sewers. Let us send you estimates and data on *your* sewer projects.

INDEPENDENT CONCRETE PIPE COMPANY
202 N. West St., Indianapolis, Ind.

Sales Agencies

CHICAGO, ILLS.
Illinois Concrete Sales Co.
139 N. Clark St., Room 703
FRANK NOVOTNY, Mgr.

CLEVELAND, OHIO
H. S. WAMSER
Electric Building
Cleveland, Ohio

COLUMBUS, OHIO
Ohio Sales Agency
297 S. High St., Room 203
E. W. HAWKE, Mgr.

OKLAHOMA, CITY
Concrete Pipe Co. of Okla.
203 Grain Exchange Bldg.
E. A. BARNES, Mgr.

MICHIGAN REP.
M. R. DICKIE
717 Arbor Street
Ann Arbor, Mich.

INDEPENDENT
Reinforced Concrete Pipe

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Tex., Brownsville—Cameron Co. Water Dist. 8, Barreda, c/o O. C. Dancey, co. judge, voted $600,000 bonds, irrigating 23,000 acre tract in Barreda Dist., here. W. O. Washington, Brownsville, co. engr. Noted June 2.

Tex., San Antonio—Making preliminary surveys flood prevention improvement, eliminating bend in San Antonio River between Johnson St. and South Alamo Street bridge. $200,000. S. F. Crecelius, 201 Torcido Dr., engr.

Tex., San Antonio — San Antonio Suburban Irrigated Farms, c/o J. E. Jarrett, pres., Frost Bldg., San Antonio, purchased properties of Medina Irrigation Co., incl. Medina rein.-con. dam, 30 mi. west of here, irrigation system and approximately 75,000 acres land below dam, and plans expending $1,000,000 improvements, incl. cleaning canals, graveling roads through lands and constructing concrete head gates. Private plans.

Calif., Richmond—Voted $690,000 bonds, improving harbor, dredging channel 400 ft. wide, 32 ft. deep, wharf and cargo building, sprinkler system, retaining wall, etc. E. A. Hoffman, city engr.

Calif., Yuba City—State Dept. Pub. Wks., Strub Bldg., Sacramento, made plans pumping plant on east bank Sutter-Butte by-pass to drain adjacent lands cut off from drainage by by-pass levees, here. $22,000.

Bids Desired

N. J., Asbury Park—Oct. 18, by Asbury Park Comrs., repairing breakwater jetty near Deal Lake, and constructing new stone and timber jetty, foot of 6th Ave. Sincerbeaux, Moore & Shinn, Asbury Park, engrs. Noted Sept. 1.

Fla., Sanford—Nov. 1, by Supervs. Slavia Drainage Dist., Seminole Co., at office P. B. Smith, secy., drainage system, incl. 5 mi. canal and lateral ditches, 141,500 cu.yd. excav. F. T. Williams, Sanford, ch. engr.

Illinois—Nov. 2, at office Dept. Purchases & Constr., Div. Waterways, Springfield, certain miter lock gates, anchorages, head gates, etc., at Starved Rock lock and dam, Contr. 7. M. G. Barnes, ch. engr.; adv. E. N.-R. Oct. 13. Noted Feb. 24.

Okla., Pauls Valley—Oct. 17, by W. J. Harris, city clk., draining and straightening Rush Creek from Emma Ave. to Washita River, 130,000 cu.yd. dry earth excav., 3.2 tons reinforcing, etc. $30,000. H. Harris, Pauls Valley, engr. Noted March 4.

Bids Received

N. Y., Brooklyn — M. Cosgrove, comr. Docks, Pier "A," foot Battery Pl., New York City, from United Dredging Co., Woolworth Bldg., New York City, dredging 5,000,000 cu.yd. in Jamaica Bay, at $0.0844 per cu.yd., 750 cu.yd. filling sand dikes at $0.75, and 125,000 ft. dredging Canarsie Pier, $0.50. Noted Aug. 18.

Contracts Awarded

N. Y., Syracuse — Bd. Contr. & Supply, City Hall, covering Harbor Brook between Richmond Ave. and State Fair Blvd., to J. H. Corbett, Jr., S. A. & K. Bldg., $70,998. Noted Aug. 25.

Mich., Detroit — Dept. Parks & Blvds., Marquette Bldg., concrete retaining wall on wood piling at Memorial Park and Detroit River, to Candler Dock & Dredge Co., 8145 Medina Ave., $41,849.

Tex., Port Arthur—City, c/o J. P. Logan, mayor, revetment work (shell) along north side canal bank, and north approach to pleasure pier, to J. A. Lindstrom, Port Arthur, at $2.12 per yd., total approximately $34,000.

Calif., Grass Valley—Nevada Irrigation Dist., Deer Creek and Combie Diversion Dams, to Morrison & Knudsen, 319 Bway., Boise, Idaho, $308,570 and $154,270 respectively; cement, to W. B. Celio, Grass Valley, $74,256; steel, to E. Soule Co., Rialto Bldg., San Francisco, $3,583. Grand total $540,679. Noted Aug. 11.

Que., Roberval — S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., reconstructing breakwater, here, to C. Gagnon, Jonquiere. Noted Sept. 15.

Streets and Roads

Proposed Work

Mass., Medford (br. Boston)—Dept. Pub. Wks., Boston, making plans concrete paving with macadam shoulders along Middlesex Turnpike, here. To exceed $25,000. City appropriated $20,000 toward cost, balance to be paid by Middlesex Co. and State.

Tennessee—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, plans surfacing (probably concrete) 20 mi. Huntingdon-Jackson Rd., Carroll Co., improving 20 mi. Dover-Tennessee River Rd. Stewart Co., and 6 mi. Caswell-Granger Co. line Rd., Knox Co. C. N. Bass, highway comr.

Tennessee—Dept. Highways & Pub. Wks., Nashville, plans constructing 12 mi. North Carolina state line-Marysville Rd., Blount Co. $200,000. C. N. Bass, comr. Work will probably be done by day labor.

Tenn., Dunlap—Sequatchie Co. and Dept. Highways & Pub. Wks., Nashville, plan constructing 4 mi. Dunlap-Marion Co. Line Rd. C. N. Bass, Nashville, comr.

Tenn., Dyersburg—State Hy. Dept. Hys. & Pub. Wks., Nashville, takes bids about Dec. 16, concrete paving, etc., approximately 15 mi. road from Dyersburg to Mississippi River, Dyer Co. Noted June 23.

Tenn., Henderson—Chester Co. and Dept. Highways & Pub. Wks., Nashville, making surveys improving State Rd. 5 from Henderson to Madison Co. line. To exceed $25,000.

Tenn., Huntington — Carroll Co. voted $600,000 bonds, improving various roads.

Tenn., Paris — Henry Co. making preliminary plans constructing 20 mi. Paris Big Sandy Rd. Henry Co. and State Dept. Hys. & Pub. Wks., Paris, engrs.

O., Zanesville — Muskingum Co. soon takes bids hardsurfacing 3 mi. Newark Rd., 18 ft. $100,000. A. T. Comar, Zanesville, engr.

Mich., Muskegon—Making plans grading and 5- to 7-in. concrete paving 4,450 sq.yd. H-37B, North Sunset Circle, and widening Pere Marquette Park, $14,000; 6 in. concrete paving 5,060 sq.yd. H-80, Catawba Ave. $16,500, 6,000 sq.yd. H-108, Allen Ave. $19,500, 912 sq.yd. H-133, Grand Ave. $2,900, 12,800 sq.yd. H-156, Park St. $41,600, 3,330 sq.yd. H-172 Forest Ave. $10,800, 2,400 sq.yd. H-174, McGraft Pk. Rd. $5,000, and 24,750 sq.yd. 9- 7- 9-in. H-212, Laketon Ave. $80,500; concrete curbing, guttering and 2½ in. sheet asphalt on 6 in. concrete or stone paving 9,044 sq.yd. H-69, Davis St. $30,700, and 5,280 sq.yd. H-219, Clay Ave. $18,500; sheet asphalt and concrete paving 400 ft. H-190, Concord Ave. $4,200, and 7,154 sq.yd. H-154, Sanford St. $25,000. H. J. Lewis, City Hall, engr.

Mich., Detroit—Making plans stone curbing and 3½ in. sheet asphalt on concrete paving 45,000 sq.yd. Detroit St. and 9 avenues, $177,270. P. A. Fellows, City Hall, engr.

Mich., Detroit — Making plans stone curbing and 3½ in. sheet asphalt on 8 in. concrete paving 21,100 sq.ft. Edsel and Endicott Aves. $90,190. P. A. Fellows, City Hall, engr.

Ia., Iowa City—Making plans 2½ and 3 in. brick, sheet asphalt or concrete paving 30 blocks various streets. F. E. Young, city engr.

Ia., Northwood — Making preliminary plans grading, curbing and 6 in. concrete paving approximately 77,000 sq.yd. Central Ave., 2nd Ave. N., 1st Ave. N., and 1st Ave. S., etc. Brown & Cook, 108 North Market St., Ottumwa, engrs.

Minn., Minneapolis—A. P. Erickson, aud. Hennepin Co., plans concrete paving, etc. East River Rd. between Anoka cut-off Highway at Coon Creek and city limits, 27 ft. $400,000. E. E. Terrell, Court House, co. highway engr.

Minn., New Ulm—Takes bids in spring alternate types paving approximately 65,000 sq.yd. various streets. $175,000. F. D. Minium, city engr.

Kan., Kansas City—Wyndotte Co. soon takes bids concrete paving 0.553 mi. Federal Aid Project 321, Sect. C, 18 ft. To exceed $25,000. O. K. Williamson, Kansas City, co. engr.

Kan., Linn—Soon takes bids curbing, guttering and paving, etc. 30 blocks various streets. $25,000. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City, Mo., engrs.

Neb., Omaha—Plans widening 20th St. between Leavenworth and Dodge Sts. $733,000. H. Beal, City Hall, engr.

Neb., Wahoo—Making preliminary plans concrete, asphalt or brick paving, etc. 15,000 sq.yd. streets in Paving Dist. 9. Bruce & Grupe, Bankers Reserve Life Bldg., Omaha, engrs.

South Dakota—State Hy. Comn., Pierre **(S.P. means State Project and F.A.P. Federal Aid Project)** plans grading 13.89 mi. F.A.P. 181 E Potter Co.; 18.96 mi. S.P. 143, Sully Co.; 160, 130 cu.yd. F.A.P. 218-A Jackson Co.; 61,440 cu.yd. F.A.P. 216-A Brown Co.; 144,931 cu.yd. F.A.P. 219-A, Walworth Co. and 45,000 cu.yd. F.A.P. 228-A Potter Co.; graveling 22,700 cu.yd. F.A.P. 215-A, 18,700 cu.yd. F.A.P. 215-B, and 21,000 cu.yd. F.A.P. 215-C, Stanley Co.; 10,000 cu.yd. F.A.P. 215-D Haakon Co.; 16,400 cu.yd. F.A.P. 95-D, Faulk Co., and approximately 9,000 cu.yd. F.A.P. 181 A, B, and C, Dewey and Potter Counties; also concrete and steel bridge on S.A.P. 143, Sully Co., and F.A.P. 219-B, Walworth Co. O. N. Hetle, state highway engr.

South Dakota—State Hy. Comn., Pierre, making plans improving 2.66 mi. Federal Aid Project 223, Roberts Co., 2,495 cu.yd. rock and 34,576 cu.yd. earth excav., 72,176 cu.yd. overhaul, 6,575 sq.yd. willow matting, 21,382 lb. steel, etc. O. N. Hetle, highway engr.

Mo., Joplin — Soon takes bids asphaltic concrete paving, etc. 2,750 sq.yd. 5th St., 12,700 sq.yd. Connor Ave., 4,100 sq.yd. Picher Ave., 6,000 sq.yd. 1st St., and 12,700 sq.yd. C St.; concrete paving 6,700 sq.yd. Sergeant St., 11 blocks Wall Ave., and 3 blocks Murphy Ave.; also warrenite bitulithic paving, etc., 4 blocks Wall Ave. S. P. Ashcraft, Jr., city engr.

Texas—State Hy. Dept., Austin, making plans grading and bridging 12.321 mi. Highway 28, from Mottley Co. line to Paducah, in Cottle Co. $65,000, Nagel, Witt, Rollins & Gilchrist, Allen Bldg., Dallas, engrs.; concrete paving 5 mi. Highway 28 from Oklauneon to Red River, Wilbarger Co., $152,828, J. B. Nabors, Vernon, engr., and 17.27 mi. Highway 45, Walker Co., $480,000, D. K. Caldwell, Huntsville, engr.; iron or gravel surfacing 5.643 mi. Highway 8, Federal Aid Project 457-A, Unit 2, $30,000, and 7.44 mi. Highway 8 from point 7 mi. northeast of Linden to Linden, $40,000, both in Cass Co., S. B. Jones, Linden, resident engr., all 18 ft. wide.

Tex., Albany—Shackelford Co., making plans hardsurfacing approximately 6 mi. highway from Jones Co. line to intersection with Highway 1, point 8 mi. west of here, $200,000, State appropriated $150,000 towards cost; 2½ mi. bituminous macadam on waterbound macadam and 5 in. caliche surfacing approximately 9 mi. highway from present pavement to point 8.2 mi. west of here, 18 ft. $235,000. J. E. Pirie, Albany, co. engr.

Tex., Alice—Made plans paving various streets. $75,000. Address F. W. Hobbs, Alice, mayor.

Tex., Cuero—De Witt Co. making plans 2 in. asphalt on 8 in. gravel paving approximately 11 mi. highway from Victoria Co. line to here. $170,000. State appropriated $61,000 toward cost. Address W. H. Koether, Cuero, co. engr.

Tex., Del Rio — Val Verde Co. making preliminary plans grading and bridging 5.68 mi. Highway 3 from Langtry to Shumla. $65,000. Address W. F. Littleton, Del Rio, co. judge.

Tex., Galveston—Takes bids after Oct. 15, paving 10 blocks Ave. F from 16th to 25th Sts., $60,000; and 5 blocks Ave. O from 40th to 45th Sts., $35,000. C. A. Holt, Galveston, engr.

Tex., Hamilton—Hamilton Co. making preliminary plans grading and gravel surfacing 18 mi. Highway 108 from Hamilton to Avant. $25,000. Address P. M. Rice, Hamilton, co. judge.

Tex., Junction—Kimble Co. voted $50,000 bonds, grading and surfacing 11 mi. highway leading out of Spanish trail east of Junction to Harper, in Precinct 4. State appropriates $50,000 toward cost. Address County Judge, Junction.

Tex., Marlin — Falls Co. making preliminary plans gravel and 3 in. bituminous macadam surfacing 7.63 mi. Highway 108. $171,721. State appropriates $71,721 towards cost. V. B. Harris, Rosebud, engr.

Tex., San Antonio—See "Unclassified."

Oklahoma—State Hy. Comn., Oklahoma City, making preliminary plans grading, etc. 10 mi. State Rd. 37, between Pauls Valley and Lindsay, Garvin Co., 30 ft. $45,000. C. R. Mandigo, Capitol, Oklahoma City, highway engr.

Oklahoma—State Hy. Comn., Oklahoma City, making preliminary plans grading, etc., 8 mi. State Rd. 13, Pawnee Co., 30 ft. $65,000. C. R. Mandigo, Capitol, Oklahoma City, engr.

Okla., Durant — Making plans grading, curbing and 6 in. concrete paving 15,100

Constr. News page 192

INDUSTRIAL BROWNHOIST

BROWNHOIST

announce

the merger of the two largest and oldest locomotive crane manufacturers in the country, Industrial Works of Bay City, Michigan, and The Brown Hoisting Machinery Company of Cleveland, Ohio.

Building by far the most complete line of similar equipment ever manufactured by one company, this merger offers you unequalled economies in the handling of your materials.

General offices will be located at Cleveland, Ohio, and the corporation known as

Products

Locomotive Cranes, 7½ to 60 tons capacity, Wrecking Cranes, 75 to 200 tons capacity, Gas Shovels, ½ to 1¼ yards capacity, Bridge Cranes, Heavy Dock Machinery, Creeper Cranes, Pile Drivers, Belt Conveyors, Chain Conveyors, Grab Buckets.

Industrial Brownhoist Corporation

Factories: Bay City, Michigan; Elyria, Ohio; Cleveland, Ohio.

District Offices: Bay City, New York, Philadelphia, Pittsburgh, Detroit, Chicago, San Francisco, St. Louis, New Orleans.

INDUSTRIAL BROWNHOIST

Streets and Roads (Continued)

sq.yd. Beech and Poplar Sts. $47,600. L. V. Stephen, Durant, engr.

Okla., Oklahoma City — Making plans grading, curbing, and sheet asphalt paving 5,100 sq.yd. 23rd St. $26,000. B. M. Harn, City Hall, engr.

Okla., Pawhuska — Comrs. Osage Co. making preliminary plans grading and paving 8 mi. Belford-Fairfax Rd., 30 ft. $75,000. W. N. Clark, Pawhuska, engr.

Okla., Sayre—Beckham Co. voted $760,000 bonds, improving 118 mi. primary road system. C. R. Mandigo, Capitol, Oklahoma City, engr. Noted Mar. 24.

Okla., Wewoka—Making plans grading, curbing and 6 in. concrete paving 14,600 sq.yd. South Hitchite and Ochese Sts. $47,750. Long & Co., 1300 Colcord Bldg., Oklahoma City, engr.

Calif., Burbank — Plans 4 in. asphaltic concrete and 1½ in. on 3½ in. asphaltic concrete paving, etc., Keystone St. and Burbank Blvd., etc. $25,000 or more.

Calif., Hawthorne—Plans grading, curbing, walks and asphaltic concrete paving, etc. Maryland Ave. between Inglewood and Hawthorne Aves., etc. $25,000 or more.

Calif., Huntington Park—Plans curbing, guttering, walks and asphaltic concrete paving, etc., Rugby Ave., etc. $25,000 or more.

Calif., Los Angeles — Made plans 6 in. concrete paving 272,505 sq.ft. and 7 in. concrete paving 62,242 sq.ft., etc., Woodrow Wilson Dr. (Hollywood Park Impvt. Dist.). J. C. Shaw, City Hall, engr.

Calif., Los Angeles—Plans concrete and asphaltic concrete paving, etc. San Fernando Rd. between Fox St. and Burles Ave., etc; also grading, curbing, walks, guttering and asphalt paving, etc. Verdugo Rd. between Ave. 35 and Hilda Ave., etc. To exceed $25,000 each. J. C. Shaw, City Hall, engr.

Calif., Los Angeles—Plans grading, ornamental lighting system, Willite asphalt paving, etc. Mott St. between Whittier Blvd. and Wabash Ave. To exceed $25,000. J. C. Shaw, City Hall, engr.

Calif., Merced—Merced Co. plans curbing, guttering, walks and 4 in. Willite asphaltic concrete paving, etc. roads in Ragsdale Subdivision. To exceed $85,000. W. E. Bedesen, Shaffer Bldg., Merced, engr.

Calif., San Diego—Common Council plans grading, curbing, guttering, walks and 6 in. asphaltic concrete paving, etc. 102,900 sq.ft. Rosecrans and Shadowlawn Sts., etc. R. A. Floyd, supt. work.

Calif., San Diego—Common Council plans grading, curbing, walks and 6 in. asphaltic concrete paving 101,262 sq.ft. Works Ave., also 470,995 sq.ft. Madison and Cherokee Aves. H. W. Jorgensen city engr.

Calif., San Diego — Common Council, plans curbing, walks and 6 in. concrete paving, etc. 289,261 sq.ft. Kearny Ave. H. W. Jorgensen, city engr.

Calif., San Diego—San Diego Co. plans grading, curbing, walks and 6 in. concrete paving, etc. 374,854 sq.ft. Division St., Euclid and Logan Aves. P. R. Watson, Spreckels Bldg., supt. work.

Calif., Santa Barbara—Plans walks and asphaltic concrete paving, etc. Voluntario St., etc. $25,000 or more.

Bids Desired

Massachusetts — Oct. 18, by Dept. Pub. Wks., Boston, bituminous macadam paving 22,213 ft. highway in Weymouth; and 18,154 ft. in East Bridgewater and Whitman, 18 ft. W. F. Williams, comr.

N. Y., Long Island City—Oct. 19, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, etc. Brinkerhoff Ave. and 100th (43rd) St.; grading and sheet asphalt on concrete paving 126th, 104th (47th), Wayne, 77th, 100th (43rd), 106th, and 115th Sts., Jefferson, 95th, 91st and Woolsey Aves., etc.

Pa., Pittsburgh—Oct. 26, at office C. C. McGovern, controller Allegheny Co., asphaltic concrete paving, etc. approximately 11,250 ft. Duncan Ave. Extension, 16 ft.

N. J., Newark—Oct. 19, at office T. L. Raymond, dir. Dept. Pub. Affairs, City Hall, grading, curbing and asphalt repaving, Commerce St. from Commercial to Market Streets, and an unnamed street from Marsh St. north to South Dock; also asphalt resurfacing Seymour Ave., from Clinton to Avon Aves.

Virginia—Oct. 18, by State Hy. Comn., Richmond, concrete surfacing 2.2 mi. S-156-B; bituminous macadam surfacing 0.64 mi. S-497-C; and 8 cluster piles in Rappahannock River (50,000 lin.ft. total), on S-409-B.

W. Va., Buckhannon—Oct. 15, by City, H. R. Gay, mayor, concrete, brick or sheet asphalt repaving 5,100 sq.yd. Main St.; also "White Way" lighting system and traffic control signals.

South Carolina — Oct. 25, by State Hy. Dept., Columbia **(F.A.P. means Federal Aid Project and S.P. State Project)**, concrete paving 10 mi. Route 24, F.A.P. 26 in Saluda Co., 9.4 mi. Route 2, F.A.P. 152 reopened and 279, 12.8 mi. Route 2, F.A.P. 159, reopened and 122 reopened and 282 Dorchester Counties, 7.8 mi. route 30 F.A.P. 208-B, reopened and 211-A reopened in Colleton Co., and 9.6 mi. Routes 9 and 11, S.P. S-647-A, and F.A.P. 207-B, Union Co.; asphaltic concrete surfacing 10.6 mi. Route 26, F.A.P. 46 reopened and S.P. S-611-B Kershaw Co., 3.3 mi. Routes 19 and 24, F.A.P. 258-D, Sect. 1, Contr. 2, and S.P. S-569 reopened Sect. 1, Saluda Co., 11.5 mi. U. S. Route 1, F.A.P. 266, Contr. 2, Kershaw Co., and 7.9 mi. Route 21, F.A.P. 195-A, and 18 reopened Greenwood Co., and also top soiling 6.6 mi. Route 10 S.P. S-663-A, Spartanburg Co.

Ala., Birmingham — Nov. 1, by City Comn., 2 in. asphalt on 5 in. concrete paving, etc., 2 blocks 17th Ave. $9,750, and 2 blocks 4th Ave. $12,150; curbing, guttering, walks and 2 in. asphalt on 5 in. concrete paving 1 block 16th Way S. W., $4,275; 2½ in. asphalt on compressed slag paving 3 blocks 2nd Ave. $10,750, and 2 blocks 1st Ave. S. $12,650; 2½ in. asphalt on 6 in. concrete paving 3 blocks Coosa St. $19,350, all foregoing 30 ft., also 6 in. concrete paving 1 block 6th Court, 26 ft. $4,500. A. J. Hawkins, city engr.

Ala., Jasper—Oct. 17, by City, 17,000 cu. yd. stone on Nauroo and Russellville Rd. E. W. Long, Jasper, judge.

La., New Orleans—Nov. 2, by W. T. Hall, acting comr. Pub. Finance, grading, curbing and paving 23 mi. various streets. $1,500,000. B. Vallas, City Hall, engr.

La., New Orleans—Nov. 3, by W. T. Hall, acting comr. Pub. Finance, temporary gravel sand and clay surfacing 21 mi. various streets. $500,000. B. Vallas, City Hall, engr.

Michigan—Oct. 17, by E. R. Benkert, resident engr., Port Huron, concrete paving, etc. 50,096 sq.yd. Project M 077-29, Contr. 1 (T.L.13), St. Clair Co., for State Hy. Dept., Lansing.

Michigan—Oct. 20, by A. R. Schaefer, resident engr., Newberry, concrete paving or bituminous macadam surfacing 2.982 mi. Project F049-8, Contr. 1 (F.A. 143-B), 20 ft., Huron Co., for State Hy. Dept., Lansing.

Michigan—Oct. 21, at office Division Engineer, Escanaba, grading 3.292 mi. Federal Aid Rd. F055-9, Contr. 1, Menominee Co., for State Hy. Dept., Lansing. G. D. Tramp, Crystal Falls, resident engr. Noted Sept. 29.

Michigan—Oct. 24, by E. R. Benkert, resident engr., Port Huron, concrete or bituminous macadam surfacing 34,812 sq.yd. LL. 83, Project M 032-27, Contr. Huron Co., 20 ft., for State Hy. Dept., Lansing.

Illinois — Oct. 19, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete, vitr. brick or bituminous concrete paving, etc. 4.25 mi. Route 14, Sect. 11 and 4.5 mi. Route 14, Sect. 12, both White Co., 5.61 mi. Route 72, Sect. 128 De Kalb and Kane Counties, 4.97 mi. Route 81, Sect. 101 Henry Co., 7.13 mi. Route 116, Sect. 113, and 6.86 mi. Route 116, Sect. 114, both Livingston Co.; grading, paving, guttering, etc. 0.21 mi. bridge approaches on Route 18, Sect. 13-E, Kendall Co.; grading, etc. 1.26 mi. Route 10, Sect. 36-A, Vermilion Co., 0.3 mi. Route 13, Sect. 28-V-1, St. Clair Co., 4.53 mi. Route 81, Sect. 102-A, Henry Co., and 4.37 mi. Route 136, Sect. 102-A Monroe Co. F. T. Sheets, highway engr.

Wisconsin—Oct. 20, by State Hy. Comn. and A. Weishapple, comr. Pepin Co., 213 South Barstow St., Eau Claire, shale surfacing, etc., 6,175 cu.yd. Durland-Ellsworth Rd., State Project 5926; also constructing Miles, Buchanan, Barron and Bauer Bridges. W. F. Baumgartner, div. engr.

Iowa — Oct. 18, by State Hy. Comn., Ames **(P.P. means Primary Project and F.A.P. Federal Aid Project)**, grading, paving, etc. 85,090 sq.yd. P.P. 114-C Cedar Co., 128,027 sq.yd. P.P. 31 Clarke Co., 263,839 sq.yd. P.P. 553 Fayette Co., 94,357 sq.yd. F.A.P. 51, and 98,367 sq.yd. F.A.P. 56 Henry Co., 261,292 sq.yd. F.A.P. 86, Jones Co., 145,886 sq.yd. P.P. 551 Lucas Co., 172,947 sq.yd. P.P. 554 Monroe Co., and 85,647 sq.yd. P.P.555-A, Worth Co.; gravel surfacing 5.26 mi. P.P. 470, and 3 mi. F.A.P. 258, Benton Co., 14.02 mi. F.A.P. 213 Cedar Co., 7.85 mi. P.P. 457 Cherokee, Ida and Woodbury Counties, 3.2 mi. P.P. 451 Crawford Co., and 8.56 mi. P.P. 309 Tama Co.; grading, etc. 5.45 mi. P.P. 30 Boone Co.; 0.3 mi. bridge fill, F.A.P. 76, and 3,177 cu.yd. F.A.P. 177, Chickasaw Co. R. F. White, ch. highway engr.

Nebraska — Oct. 19, by R. L. Cochran, state highway engr., Lincoln, grading, bridging, 1.5 in. sand graveling, etc. 55,500 sq.yd. Barnston-West Project 607, Gage Co., for State Hy. Comn., Lincoln. $40,000.

Nebraska — Oct. 28, by R. L. Cochran, state highway engr., Lincoln, graveling, etc. 12 mi. Federal Aid Project 340-A, Harlan Co., $45,000; also grading, bridging, etc. 30,000 cu.yd. Federal Aid Project 310-A, Greeley Co. $30,000, for State Hy. Comn., Lincoln.

Tex., San Benito—Oct. 26, by A. Tamm, engr., San Benito, alternate types paving 16 blocks Arlington Ave., Palm Blvd., East Resaca Dr. and on Line 3 Roadway, extension of East Resca Dr., 45 ft., for City. $50,000.

Colorado—Oct. 17, by State Hy. Dept., Denver, gravel surfacing 3,160 cu.yd. highway 6, Federal Aid Project 258-E, Constr. Div. 2, Montrose Co. L. D. Blauvelt, State Office Bldg., Denver, engr.

Calif., San Diego—Oct. 24, by Common Council, grading, curbing, guttering, walks and 6 in. asphaltic concrete paving, etc., 438,717 sq.ft. El Cajon Ave., etc.; and 355,413 sq.ft. Chatsworth Blvd., etc. H. W. Jorgensen, city engr. Noted Sept. 22.

Calif., San Francisco—Bd. Pub. Wks., taking bids curbing, guttering, widening and paving, etc. San Jose Ave. To exceed $32,000. M. M. O'Shaughnessy, city engr.

Bids Received

Maine—State Hy. Comn., Augusta, Sept. 26, graveling, etc. 3 mi. highway in East Millinocket, and 2.48 mi. in Connor, from McCabe & Giovannine, 20 Central St., Boston, Mass., $42,208 and $33,623 respectively; 1 mi. in Madawaska, from P. A. Cyr & T. Soucy, Grande Isle, $30,267; 4.61 mi. in Embden-Solon, from I. J. Murphy, 12 Westford Rd., Somerville, $50,703; and 1.67 mi. in Island Falls, from Litchfield & Douglas, Brunswick, $23,090. Noted Sept. 22.

Mass., Dorchester (sta. Boston)—Dept. Pub. Wks., Boston, Sept. 28, recut granite block paving Freeport St., here, from S. J. Tomasello, 11 Cushing Terrace, $26,846.

New York—A. W. Brandt, comr. Highways, Albany, Oct. 7, **(e.e. means engineers estimate)** concrete repaving 9.12 mi. Repair Contr. 1657, Highway 1246, Friendship-Bolivar Rd., Part 2. Highway 1322, Geneseo-Portville Rd., Allegany Co., and 6.31 mi. Highway 8292, Bliss-Pike Rd., Wyoming Co., from E. C. Jones, Warsaw, $376,442 and $305,137 respectively, e.e. $527,887 and $438,050 respectively; 6.29 mi. Highway 1760, Hopewell Junction-Millbrook Rd., Part 3, Dutchess Co., from Stento & Sarafina, Binghamton, $420,275 e.e. $538,259; 1.33 mi. Repair Contr. 1645, Weaver St., Part 1, Westchester Co. from F. Roeber Co., Inc., 507 5th Ave., New York City, $111,803 etc., $138,646; 12.37 mi. Highway 8291, Coram-Middle Island East, Suffolk Co., from Connor Bros., Franklin Blvd., Long Beach, $514,421 etc., $756,677; 4.11 mi. Repair Contr. 1659, Highway 5299, Babylon Village, Highway 743 Babylon-Bayshore Rd., Suffolk Co., from Hogeboom & Campfield, Inc., Kingston, $315,948 e.e. $433,239; 2.34 mi. Repair Contr. 3190, Highway 250, Utica-Oneida Castle Rd., Part 1, Oneida Co., from Utica Constr. Co., Utica, $171,523 etc., $244,219; 1.01 mi. Repair Contr. 1666, Highway 1015, Crystal Springs-Chappaqua-Millwood Rd., Westchester Co., from J. Mascetti Co., 223 Oak Ave., Torrington, Conn., $92,735 e.e. $121,455. Noted Sept. 22.

New York—Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, Oct. 5, grading and paving, etc., Hutchinson River Parkway, Mamaroneck Ave., etc., in White Plains and Harrison, from P. S. Cramer, 207 East 58th St., New York City, bituminous macadam $213,988, from J. E. Brady Co., 280 Madison Ave., New York City, amesite $232,340, from Hastings Pavement Co., 25 Broad St., New York City, asphalt block $240,142, and from J. H. Gordon, 191 North Lake Ave., Albany, rein.-con. $183,077. Noted Sept. 22.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Oct. 5, asphalt paving portion 43rd St., from Uvalde Asphalt Paving Co., 1 Bway., New York City, $17,835; asphalt block paving portion Northern Blvd., from J. J. O'Brien, Jr., William St., Jamaica, $38,395; grading, etc. portion Queens Blvd., from Kennedy & Smith, Bradford St., Flushing, $64,951; sidewalks on Northern Blvd., from C. Kurth, 5915 126th St., Richmond Hill $2,530; on 114th St., from Laurel Hill Constr. Co. $3,400, and on Celtic Ave., from Slattery Contg. Co., 10 East 43rd St., New York City $1,497. Noted Sept. 29.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., Oct. 5, widen-

Constr. News page 193

Streets and Roads (Continued)

ing and granite block repaving portions Avenue C and 94th St., from J. Meehan & Son, 90 West St., $51,108 and $18,070 respectively. Noted Sept. 29.

N. Y., New York—Park Bd., W. T. Herrick, pres., Arsenal Bldg., Central Park, repaving roadway across southerly portion Crotona Park, from C. D. Beckwith, Inc., Seneca Ave. and Edgewater Rd., $44,996. Noted Sept. 29.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, Oct. 5, concrete repaving portions Broad and Gordon Sts., from J. E. Donovan, 2205 Richmond Terrace, Port Richmond $18,280, and Quinlan and Victory Blvds., from Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $8,483; also concrete curbing, etc. Victory Blvd., from R. Lauria, 151 Bway., West New Brighton, $5,677. Noted Sept. 29.

New Jersey—State Hy. Comn., Trenton, Oct. 3, grading, and rein.-con. paving 3,772 sq.yd. Route 17, Sect. 4, Hokokus Boro, Bergen Co., from T. Adametz, Market St., East Paterson, $23,691. Noted Sept. 22.

N. J., Newton — Town Com., Sept. 29, grading, guttering, curbing, sidewalks and concrete paving 13,318 sq.yd. various streets, from J. F. McGreevey, 141 North Main St., Manasquan, $68,406. Noted Sept. 22.

Contracts Awarded

Rhode Island — State Bd. Pub. Wks., Providence, grading highway in Northfield, to Lawton Constr. Co., Providence, $110,163; and highway in Cumberland, to Lane Constr. Corp., 37 Colony St., Meriden, Conn., $118,523. Noted Sept. 15.

Conn., Stamford — Bituminous paving, West Broad St., to Peter Mitchell, Inc., Hackett Bldg., Greenwich, $95,931.

N. Y., New York—J. Miller, pres., Manhattan Boro, Municipal Bldg., grading, curbing, and granite block paving Fairview Ave., to Asphalt Constr. Co., 2197 Madison Ave., $52,872. Noted Sept. 22.

New Jersey—State Hy. Comn., Trenton, Oct. 4, grading and rein.-con. paving 3,772 sq.yd. Route 17, Hohokus Bergen Co., to T. Adametz, Market St., East Paterson, $23,691. Noted Sept. 22.

N. J., Bayonne—Bd. Boulevard Comrs., Court House, Jersey City, sheet asphalt on 8 in. concrete paving 31,870 sq.yd. Hudson Co., Blvd. between West 38th and West 56th Sts., here, to C. T. Kavanagh, Inc., 780 Bway., $187,579. Noted July 14.

Pennsylvania—State Hy. Comn., Harrisburg, **(R. means Route and A. Application)**, rein.-con. paving, etc., 10,479 sq.yd. R. 4, Luzerne Co., to H. C. Kersteen, Kingston, $290,279; concrete paving, etc., 3,800 sq.yd. R. 186, Somerset Co., to M. Barker, Binghampton, N. Y., $17,564, 3,600 sq.yd. R. 86, Sect. 3, Erie Co., to C. H. Fry Constr. Co., 1902 Cherry St., Erie, $36,557, 23,170 sq.yd. R. 616, Greene Co., to McCrady Bros., 6th St., Braddock, $160,536, 23,000 sq.yd. R. 236, McKean Co., to Smouse & Kreamer, P. O. Box 906, Galeton, $120,625, 22,200 sq.yd. R. 406, Cambria Co., to A. R. Cooper Constr. Co., Parkers Landing, $82,678, 13,600 sq.yd. R. 543, Chester Co., to Frank Mark Constr. Co., N and Wingehocking Sts., Phila., $66,003, and 15,700 sq.yd. A. 2794, York Co., to Red Lion Constr. Co., Red Lion, $70,915. Grand total $845,157. Noted June 30, Aug. 18 and Sept. 8.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, to Barber Asphalt Co., 239 North 30th St., asphalt repaving Moore St. $6,344, and to Municipal Constr. Co., Washington Sq. Bldg., 17th St. $13,468; to Union Paving Co., 123 South 21st St., redressed granite block repaving Allegheny and Sedgley Aves. (track area), $32,292, and concrete repaving 33rd St., etc., $38,418; to C. G. Centrone, 522 North 65th St., redressed granite block repaving Commerce St. $2,248, to F. A. Carruso & Son, 804 South 12th St., Germantown Ave. (track area), $27,956, to Mazzola & Marano, 739 South 7th St., 8th and 9th Sts. $38,171, 17th St. (track area), $10,312, and 18th and 19th Sts. (track area), $23,520; also to E. J. Barrett & Co., 4732 Pine St., paving and repaving certain alleys in Highway Dist. 2, $2,027. Grand total $200,756. Noted Sept. 22.

Md., Baltimore—Bd. Awards, grading 27,000 cu.yd. streets listed in Contr. 436, to Potts & Callahan, Knickerbocker Bldg., $9,720; and concrete paving 18,130 sq.yd. Contr. 437, to Arundel Contg. Co., Knickerbocker Bldg., $40,974. Noted Sept. 22.

Virginia—State Hy. Comn., Richmond, grading, etc. 8.08 mi. Route 14, Sect. 512, Alleghany Co., to Echols Constr. Co., Cass, W. Va., $151,528, 3.2 mi. Route 23, Patrick Co., to Roberts Paving Co., Pulaski $53,134, and 0.685 mi. Route 105, Sect. 464-C

Constr. News page 194

and D, Tazewell Co., to R. L. Lipscomb, Bluefield, W. Va., $22,338; gravel surfacing 5.5 mi. Route 1012, Sect. S-424-A, Princess Anne Co., to Roberts Paving Co., Salisbury, Md., $69,390; bituminous macadam paving 1.7 mi. Route 28, Sect. 297-A, Albermarle Co., to Copenhaver Constr. Co., Emporia, $87,428, 0.02 mi. Route 11, Sect. 208-B, Tazewell Co. and two 20 ft. span concrete slab bridge on Route 10, Sect. S-511, Smyth Co., to Sneed & St. Martin, Gate City, $9,426 and $5,474 respectively; three 35 ft. rein.-con. beam span bridge on Route 10, Sect. S-468, Bedford Co., to Perkins & Barnes, Blackton, $15,384. Grand total $414,103. Noted Sept. 15.

W. Va., Clarksburg—Harrison Co. Court, bermudez surfacing, etc. 4.5 mi. Brushy Fork, Marshall and Patterson Fork Rds., to Federal Asphalt Paving Co., Hamilton, O., $51,682. Noted Sept. 15.

W., Va., Clarksburg—Harrison Co. concrete paving 1½ mi. Project 2 and stone surfacing 2 mi. Project 7, in Clay and Grant Dists., to Keeley Constr. Co., Clarksburg, $35,086. Noted Sept. 22.

W. Va., Wheeling—Ohio Co. Court concrete paving 3,400 ft. Stone Church Rd., to Consolidated Eng. Co., Natl. Bank of West Virginia, $28,099.

Georgia—State Hy. Dept., East Point, concrete paving 2 mi. Buford-Gainesville Rd., Gwinett Co., to Carolina Constr. Co., Spartenburg, S. C., $52,318. Engrs. est. $50,000.

Florida — State Road Dept., F. A. Hathaway, chn., Tallahassee, single bituminous treatment on broken stone surfacing 70,982 sq.yd. Project 50-A, Putnam Co., to L. M. Gray, Gainesville, $97,924; sheet asphalt surfacing 95,080 sq.yd. Project 640-A, and bitulithic concrete (Topeka) paving 124,651 sq.yd. Project 640-B, Martin Co., to West Constr. Co., Chattanooga, Tenn., $223,618 and $309,165 respectively; bituminous macadam paving 140,010 sq.yd. Project 654, Broward Co., to S. P. Snyder & Son, Fort Lauderdale, $301,380, and 87,339 sq.yd. Project 683-C, Palm Beach Co., to Harrison Constr. Co., Box 1997, Buena Vista Sta., Miami, $184,730; broken stone paving 177,014 sq.yd. Project 669XZ, Collier Co., to H. E. Wolfe Constr. Co., St. Augustine, $200,256; grading, etc., 112,204 cu.yd. Project 722, Jefferson Co., to R. J. Carroll, Lamont, $61,254, and 212,707 cu. yd. Project 615, Sarasota Co., to E. F. Powers Constr. Co., 816-7, Harvey Bldg., West Palm Beach, $108,004; surface treating on lime rock paving Project 659, Clay Co., to Duval Eng. & Contg. Co., Dyal Upchurch Bldg., Jacksonville, $34,748. Grand total $1,521,079. Noted Sept. 15.

Miss., Jackson—Asphalt and concrete paving, etc. various streets, to Dunn Constr. Co., Merchants Bank Bldg., $32,000.

Kentucky—State Hy. Dept., Frankfort **(S. P. means State Project)**, napped sandstone with sandstone filler surfacing 4 mi. Middlesboro-Pruden Rd., S. P. 5-H, and 2.841 mi. Pineville-Clear Creek Rd., S. P. 112-B, Bell Co., to F. W. Graham, Pineville, $20,180 and $12,310 respectively; traffic bound sandstone surfacing 14.165 mi. Salyersville-Paintsville Rd., S. P. 34-D, Magoffin and Johnson Counties, to Wilmore Constr. Co., Wilmore, $69,921; grading, etc., using concrete headwalls, also concrete bridges on 13.106 mi. London-Manchester Rd., S. P. 28-A, Laurel Co., to A. Dunn Constr. Co., South Corbin, $119,445. Grand total $221,856. Noted Sept. 15.

O., Canton—Vertical fibre brick paving 24th St. N.E. from Giols Ave. N.E. to St. Elmo Ave. N.E., and 23rd St. N.E. from Rowland Ave. N.E. to St. Elmo N.E., to Garaux Bros Co., Massillon Rd., $25,000 and $30,000 respectively.

O., Cleveland—Bd. Comrs. Cuyahoga Co., curbing and concrete resurfacing 18,417 sq. yd. S. O. M. Center Rd. 2, to Cleveland Trinidad Paving Co., Western Reserve Bldg., $80,736. Noted Sept. 22.

Mich., Berkley (br. Detroit)—For 8 in. concrete paving 35,000 sq.yd. Twelve Mile Rd. and Woodward Ave., to R. D. Baker Co., 1631 Elmhurst Ave., Detroit, $100,820.

Mich., Detroit—Grading and one course 6 in. concrete paving, etc. 13,500 sq.yd. Alleys 3370 to 3379, to Otis Cement Constr. Co., 419 Hammond Bldg., to Bishop & Weir, 6551 East Six Mile Rd., to W. G. Tatti, 1337 Three Mile Dr., and C. L. Lincoln, 12337 Indiana Ave. $33,000.

Mich., Detroit—Stone or concrete curbing and 3½ in. sheet asphalt on 8 in. concrete paving 4 avenues, to M. R. Hanna Co., Ryan Ave. and Nevada Rd., $91,602; Wildemere Ave., to Cleveland Trinidad Paving Co., 402 Hammond Bldg., $10,186; and 4 avenues, to Detroit Asphalt Paving Co., 909 Transportation Bldg., $109,997. Grand total $211,785. Noted Sept. 29.

Mich., Pontiac—Concrete curbing, concrete sidewalks and 8 in. concrete paving 28,381 sq.yd. Montcalm, Perry and Baldwin Sts., Assessment Dist. 125, to Taylor Constr. Co., Birmingham, $104,974.

Mich., Wyandotte—E. C. Bryan, city clk., concrete paving Special Assessment Dist. 95, 96 and 100, to W. L. Thon, Wyandotte, $42,764. Noted Sept. 8.

Ill., Chicago—Cook Co. Highway Dept., paving, etc., portion Cicero Ave., to Goelitz Bros., Oak Park, $54,998; and portion Schmadka Rd., to Chicago Heights Coal Co., Chicago Heights, $61,338.

Ill., Chicago—Cook Co. Highway Dept., 139 North Clark St., to W. A. Black & Co., 228 North La Salle St., paving 2.7 mi. Oakton St. $135,868, to J. P. O'Keefe, 7854 Ashland Ave., 1.1 mi. Harlem Ave. $40,557, to H. J. Goelitz, Oak Park, portion Harlem Ave. $18,370, to Chicago Heights Coal Co., Chicago Heights, 3 mi. Grand Ave. $124,829, 4.3 mi. Lawrence Ave. $182,145, and 2.3 mi. Harlem Ave. $111,479, to A. Ward & Son, Lansing, 4.5 mi. Archer Ave. $218,476, to S. Jaicks, 77 West Washington St., 1.8 mi. Irving Park Blvd. $71,302, to Jaicks Bros., 77 West Washington St., 2.2 mi. Belmont Ave. $140,902, to Arcole Constr. Co Evanston, 1 mi. Demster St. $25,002, and to States Impvt. Co., 160 North La Salle St., 1 mi. 95th St. $38,792. Grand total $1,107,715. Noted Sept. 22.

Ill., Glenview—Rein.-con. paving 26,000 sq.yd. various streets, to Milburn Bros., 18th and Charles Sts., Rockford, Ill., $114,896.

Ill., Westmont — For 7 in. rein.-con. paving 61,000 sq.yd. various streets, to United Contractors, Glen Elyn, $191,873. Noted Sept. 22.

Wis., Milwaukee—Bd. Pub. Wks., R. E. Stoelting, comr., to Gumz & Switalski, 821 13th Ave., grading and paving East Euclid Ave. $2,971, Mitchell St. $16,382, Morgan Ave. $4,962, and 29th Ave. $4,716; to J. P. Mahlberg, 818 Capitol Dr., Morgan Ave. $7,205; to Wisconsin Asphalt Paving Co., 123 Milwaukee Ave., Summitt Ave., $11,467; to Ryback & Sadowski, 1092-2nd Ave., 1 alley $1,697; to Swerm Bros., 2 alleys $11,608; to Schramkowski & Sons, 918 Dousman St., 54th St. $4,437, 37th St. $5,328, and 2 alleys $11,020; to Dean Constr. Co., 382 East North Ave., 59th St. $1,303, and Hopkiss St. $466; to N. Harris, Girard and St. Albons Sts., 3 alleys, $12,548; to J. C. Bluhm & Sons, 1299 Achilles Pl., 1 alley, $5,727; and to Bloch Constr. Co., 2123 Vliet St., 1 alley, $6,000. Grand total $107,838.

Iowa—State Hy. Comn., Ames **(F. A. P. means Federal Aid Project and S. A. P. State Aid Project)**, to Natl. Constr. Co., 1315 South 20th St., Omaha, Neb., grading, paving, etc., 95,764 sq.yd. U. S. Highway 218, F. A. P. 251-A, Benton Co., $236,568, 16,560 sq.yd. Sigourney Rd., F. A. P. 34, $41,205, and 117,077 sq.yd. Washington Co. line Rd., P. P. 489 $289,061, both Keokuk Co., 8,002 sq.yd. Washington Rd., F. A. P. 71 $20,632, and 152,249 sq.yd. Keokuk Co. Line Rd., P. P. 544-A $384,864, both Washington Co., to Wright Constr. Co., 1325 Main St., Des Moines, 89,647 sq.yd. U. S. Highway 34, F. A. P. 20, Monroe Co. $270,627, and 71,153 sq.yd. U. S. Highway 32, P. P. 451, Cedar, Scott and Muscatine Counties $165,822, and to C. F. Lytle Constr. Co., 625 Finance Bldg., Sioux City, 189,401 sq.yd. Primghar Rd., P. P. 545, O'Brien Co. $419,264; to M. O. Weaver, Iowa Falls, graveling 11.46 mi. U. S. Highway 161, F. A. P. 224, Linn Co. $8,110, to Moore & Eldridge, Clemens, 10.9 mi. Marion-Centra City Rd., F. A. P. 230, Linn Co. $10,333, to Tama Sand & Gravel Co., Tama, 4.76 mi. U. S. Highway 30, P. P. 276, Tama Co. $10,780, to H. J. Dane, Iowa City, 7.713 mi. Iowa City Rd., P. P. 35-D, Johnson Co. $20,800, to M. Baker, Maquoketa, 6 mi. Wyming-Jacksn Rd., F. A. P. 163-C, Jones Co. $10,395, to F. Cram, 1535 East 13th St., Des Moines, 2.73 mi. Carnforth Rd., F. A. P. 261-B, Poweshiek Co. $7,812, and 11.11 mi. Norwalk-Martindale Rd., P. P. 519, Warren Co. $20,640; to J. O'Neil, Hamilton, Mo., grading 1.4 mi. Centerville Rd., P. P. 535, Appanoose Co. $9,132, to J. H. Miller & Son, Dumont, 7,615 mi. Hamilton-Monroe Co. line Rd., F. A. P. 253, Marion Co. $51,008, to Stevens Bros., Minneapolis, Minn., 8.433 mi. Hopkinton Rd., F. A. P. 249-A, Delaware Co. $61,365, to E. J. Wilson, 208 North 30th St., Omaha, Neb., 2.795 mi. U. S. Highway 30, F. A. P. 14, Harrison Co. $13,864, and to G. W. Condon, 514 Federal Reserve Bldg., Omaha, Neb., 3.314 mi. U. S. Highway 30, F. A. P. 303, Tama Co. $43,012; to J. H. Green & Son, Sheldon, 14,320 cu.yd. bridge fill on F. A. P. 28, and P. P. 67, Sioux Co. $4,869, and to W. F. Dollon & Sons, Bentley, 6,824 cu.yd. bridge fill on P. P. 547, Pottawatomie Co. $2,047; to F. H. Christianson, Guthrie Center, 5,920 ft. guard rail and 36 anchors on various projects in Dallas Co. $1,557, to H. Murphy, Marengo, 9,540 ft. guard rail

Streets and Roads (Continued)

and 62 anchors on U. S. Highways 34 and 63, F. A. P. 159 and 246, Wapella Co. $2,819, to G. Cronkhite, Perry, 9,920 ft. guard rail and 20 anchors on U. S. Highway 75, P. P. 223-A Sioux Co. $1,885. Grand total $2,108,472. Noted Sept. 15.

Ia., Carroll—Carroll Co., to R. Briscoe, Arcadia, improving secondary roads, 2,250 cu.yd. gravel 1 mi. haul at $0.35 per cu.yd. and 15,375 units overhaul at $0.075; to L. V. Kier, Nemaha, 10,400 cu. yd. gravel 1 mi. haul $0.265 to $0.35, 41,000 units overhaul $0.065 and $0.07; to Northwestern Gravel Co., 106 Grand St., Des Moines, 3,650 cu.yd. gravel f.o.b. Halbur, at 1.575, 1,000 cu.yd. f.o.b. Maple River at $1.38, and 2,250 cu.yd. f.o.b. Arcadia $1.3275.

Ia., Cedar Rapids—Linn Co., improving secondary road system, 9,300 cu.yd. crushed stone complete on roads, to Falcon & Reinking, 218 Cedar Rapids Natl. Bank Bldg. at $2.395 per cu.yd., 12,100 cu.yd., to B. C. Johnson, Cedar Rapids $2.45, 1,900 cu.yd., to Shaler & Albright, Cedar Rapids $2.73, and 3,400 cu.yd. Class A gravel complete on roads, to Moore & Eldridge, Clemons, $1.90.

Ia., Sac City—Sac Co., to Ring Bros., Sac City, improving township roads, 12,500 cu.yd. gravel 1 mi. haul at $0.25 and $0.30 per cu.yd., 45,500 units overhaul at $0.65 and $0.07, and 2,800 cu.yd. stripping at $0.20.

Minnesota—State Hy. Comn., St. Paul, **(S. P. means State Project and F. A. P. Federal Aid Project)**, grading 275,000 cu. yd. S. P. 1-51, and 35,000 cu.yd. S. P. 945, Sect. 1, F. A. P. 408, to C. W. McNamara, Sioux Falls, S. D., $152,038, 208,000 cu.yd. S. P. 4-36, Sect. 2, F. A. P. 395, to S. J. Peterson, 2942 Pleasant Ave., Minneapolis, $69,079, 112,600 cu.yd. S. P. 8-39, F. A. P. 302, to Jamieson-Shelley Co., Stillwater, $36,487, 380,000 cu.yd. S. P. 9-21, Sect. 2, F. A. P. 399, to A. Guthrie & Co., 1209 Builders Exch. Bldg., St. Paul, $231,238, 136,700 cu.yd. S. P. 10-54, Sect. 2, F. A. P. 392, to C. Weaver, Anoka, $46,569, and 283,800 cu.yd. S. P. 28-29, F. A. P. 393, to H. Huebscher, 1337 Edmund St., St. Paul, $114,941; also concrete paving 171,600 sq. yd. S. P. 62-21, Divs. B and C, to Thornton Bros. Co., 318 Endicott Bldg., St. Paul, $226,282, and 136,800 sq.yd. S. P. 63-22, Divs. E and F, to Woodrich Constr. Co., 808 Metropolitan Life Bldg., Minneapolis, $196,660. Grand total $1,073,294. Noted Sept. 8.

Nebraska—Dept. Pub. Wks., Lincoln, grading 14 mi. Project 97-C, Pawnee Co., to Monarch Eng. Co., Falls City, $43,040; and 8.9 mi. Project 246-C, Richardson Co., to Yant Constr. Co., 905 Omaha Natl. Bank Bldg., Omaha, $50,533. Noted Sept. 15.

Neb., Lincoln—To Cochrane Constr. Co., 822 1st Natl. Bank Bldg., asphaltic concrete Paving 690 sq.yd. Dist. 759 $2,486, 3,555 sq.yd. Dist. 756 $11,730, and 2,400 sq.yd. Dist. 757 $8,396; also to Abel Constr. Co., 308 Terminal Bldg., 3,680 sq.yd. Dist. 764, $11,525. Grand total $34,137. Noted Aug. 25.

North Dakota — State Hy. Comn., Bismarck, graveling, etc., 12,562 cu.yd. Project 58, Sargent Co., to W. H. Noel & Co., Jamestown, $25,161; 24,263 cu.yd. Project 306-B, and 5,269 cu.yd. Project 54, Kidder Co., to F. J. Petts, Fargo, $18,889 and $2,680 respectively. Grand total $46,730.

Wyoming—State Hy. Comn., Cheyenne, **(F. A. P. means Federal Aid Project)**, select material surfacing 33,500 cu.yd. F. A. P. 168-B, Natrona Co., to T. D. Cain, Riverton, $50,625; grading, etc., 125,100 cu.yd. F. A. P. 193-B, Lincoln Co., to Taggart Constr. Co., Cody, $48,687, and 87,200 cu.yd. F. A. P. 138-C, Laramie Co., to Code & Peterson, $27,120; also constructing bridge on same road, to Levy Constr. Co., Denver, Colo., $6,917. Grand total $133,-349. Noted Sept. 22.

Montana — State Hy. Comn., Helena, **(F. A. P. means Federal Aid Project)**, grading, etc., 4.651 mi. F. A. P. 231, Sect. B, Missoula Co., to T. Helean, Missoula, $19,884; 5.91 mi. F. A. P. 207-B, Silver Bow Co., to Sutherland & Burns, Kalispell, $41,-330; 4.877 mi. F. A. P. 239-C, Park Co., and 8.221 mi. F. A. P. 157-B, Garfield Co., to J. W. Hershberger, Hardin, $30,261 and $21,513 respectively. Grand total $112,988.

Mo., Joplin—To V. E. Koch, 417½ Joplin St., squeegee asphalt paving, etc. 8,340 sq.yd. 18th St. at $1.68 per sq.yd., 2,325 sq.yd. 3rd St. $1.65, concrete paving, etc. 720 sq.yd. alley between Moffett and Sergeant Sts. at $1.72 per sq.yd.; also grading and macadam paving, etc. Moffett Ave. $1,899, and to C. R. DuBois, Pittsburg, Kan., grading, macadam paving, etc., 6th St. $4,403, 28th St. $595, and Ozark St. $1,200.

Mo., Kansas City—Asphaltic concrete paving 24,862 sq.yd. 15th St., to T. P. Thompson, 3908 Forest Ave. $95,479.

Arkansas—State Hy. Comn., Little Rock, grading, etc., 8.8 mi. Glenwood Kirby Rd., Pike Co., and 12 mi. Fort Smith and Dardanella Rd., Logan Co., to Cook & Ransom, Ottawa, Kan., $62,720 and $72,-734 respectively; 6.4 mi. Prescott Rosston Rd., Nevada Co., to Griffin & Harvilles, Gurden, $27,069; 8 mi. Fort Smith Charleston Rd., Sebastian Co., to Winstead & Gunter, Siloam Springs, $49,587; 12 mi. Camden Chidester Rd., Quachita Co., to M. Tansey, Bastrop, La., $71,545; 17 mi. Dallas Co. line Malvern Rd., Hot Springs Co., to R. O. Gwin, Sheridan, $64,285; 6.5 mi. Holly Island Rd., Clay Co., and 5.3 mi. Marmaduke Clay Co. line Rd., Green Co., to LaHar Bros., Springfield, Mo., $44,070 and $43,520 respectively; 3.7 mi. Eldorado Calion Rd., Union Co., to Phipt Constr. Co., Pine Bluff, $100,205; 12.5 mi. Hot Springs Malvern Rd., Hot Springs Co., to M. E. Gillioz, Monett, Mo., $128,402; 17.2 mi. Hot Springs Glenwood Rd., Garland Co., to J. Spencer & Sons, Mulvane, Kan., $123,327; and 5 mi. Pansy West Rd., Cleveland Co., to R. J. Lynch, Little Rock, $27,726. Grand total $815,190.

Texas—R. A. Thompson, engr. State Hy. Dept., Austin **(e.e. means engrs. est.)** grading and drainage structure on 9.573 mi. Highway 1 from Howard Co. line to Westbrook, 26 ft., Mitchell Co., to Culverhouse & Jones, Trent, $30,342 e.e. $32,000; 2½ in. bituminous macadam surfacing 3.894 mi. Highway 6, 18 ft., Hill Co., to R. B. Sparks, 225 North Brighton St., Dallas, $58,489 e.e. $60,000; two course surface treatment 383,539 sq.yd. Highway 1 from Jeff Davis-Culberson Co. line to point 5 mi. west of Toyah from Pecos River to point 16.33 mi. westerly, Jeff Davis and Reeves Counties to Cocke & Turner, Marshall, $74,-023 e.e. $80,000; and concrete paving 6.309 mi. Highway 90, 18 ft., Washington Co., to A. A. Davis & Co., 31st and Troost Sts., Kansas City, Mo., $133,131 e.e. $150,000. Grand total $295,985.

Tex., Sherman — Grayson Co., grading, bridging and concrete paving 13 mi. Highway 5 from Sherman to Fannin Co. line, 18 ft. $420,836. J. G. Rollins, Sherman, engr.

Okla., Medford—W. V. Shanklin, city clk., grading, curbing and 6 in. concrete paving 7,700 sq.yd. Oklahoma and 1st Sts., to Ward, Beekman & Brooks, 1801 East 9th St., Oklahoma City, $23,741. Engrs. est. $26,000.

Okla., Newkirk—Grading, curbing and 6 in. concrete paving 9,610 sq.yd. Cedar and Chestnut Sts., to Watson & Son, Newkirk, $27,442. Engrs. est. $30,000.

Okla., Prague — Grading, curbing and 7 in. concrete paving 5,700 sq.yd. Bway. and 11th St., to Baum & Dyer, Durant, $27,-464. Engrs. est. $27,844.

Okla., Shawnee—For 2 in. asphalt on 5 in. concrete paving 21,000 sqyd. various streets, to H L. Cannady Co., 1122 South Lewis St., Tulsa, $113,664. Noted Sept. 22.

Colorado—State Hy. Dept., Denver, concrete paving and gravel shoulders on 1.959 mi. Highway 1, Las Animas Co., to W. A. Colt & Son, Las Animas, $79,335.

Idaho—J. D. Wood, comr. Pub. Wks., Boise, grading, etc., 15.567 mi. Federal Aid Project 86-C, Canyon and Ada Counties, to Morrison & Knudsen Co., 319 Bway., Boise, $195,618.

Utah—State Hy. Comn., Salt Lake City, graveling 2.113 mi. Project 103, and 4.285 mi. Project 93-C, Summit Co., to J. M. Sumsion, Springville, $17,641 and $37,385 respectively.

Wash., Kelso—Comrs. Cowlitz Co., grading, graveling, etc., 2,409 cu.yd. and constructing 140 ft. steel span bridge on Permanent Highway 13, to J. R. McAuliffe, Longview, $42,000. Noted Sept. 15.

Wash., Seattle—Paving, etc. 21st Ave. S., et al., to F. McLellan, Dexter Horton Bldg., $25,566.

Wash., Seattle—Paving 5th Ave. N. E. et al, to Fiorito Bros., 3950 6th St. N.W., $62,985.

Oregon—State Hy. Dept., Salem, grading, etc. 11.17 mi. Burns Otis Market Rd., Harney Co., to Jetty Bros., Burns, $99,-562; furnishing maintenance materials and surfacing Dallas-California Highway, Jefferson Co., to L. F. Ireton, McMinnville $36,796, Old Oregon Trail, Umatilla Co., to C. R. Seitz, LeGrand $38,497, and West Sect. Old Oregon Trail, Umatilla Co., to Wren & Greenbaugh, Portland $37,569. Grand total $212,424.

California—Golden Gate Ferry Co., c/o A. O. Stewart, Holbrook Bldg., San Francisco, waterbound macadam paving approximately 11 mi. Sears-Point Cut-off Rd., Sonoma and Solano Counties, to Hutchinson Co., 1706 Bway., Oakland, approximately $100,000. Noted May 19.

Calif., Oakland—Port Comn., Warrenite surfacing, etc. 14th St. wharf, to California Constr. Co., 58 2nd St., San Francisco, $28,996.

Calif., Oakland—Alameda Co., grading, surfacing and oil macadam paving, etc. 118,000 sq.ft. portions Skyline Blvd. and Spruce St., etc., to Oakland Paving Co., 5000 Bway., $36,582. Noted Oct. 6.

Calif., Piedmont—Grading, curbing, guttering and macadam paving, etc. Moraga Ave., to Heafey-Moore Co., 344 High St., Oakland, $28,250.

Calif., San Diego—Common Council, improving Hickory St., etc., and Hill St., etc., to V. R. Dennis Constr. Co., 3843 Park Blvd., $73,310 and $253,157 respectively.

Buildings—Commercial

Proposed Work

Mass., Brockton — TEMPLE — Brockton Masonic Building Assn., M. L. Keith, 16 Plain St., plans masonic temple, Main St. To exceed $150,000. Osgood & Osgood, Monument Sq. Bldg., Grand Rapids, Mich., archts.

Mass., Leominster—THEATRE—A McEvoy, Mechanic St., plans rebuilding theatre, Mechanic St. $150,000. Engineer and architect not selected.

Conn., Waterbury — BUSINESS — New England 5-10 and 25 cent Store, Inc., c/o G. A. Quick, archt., 170 Kneeland Rd., New Haven, had plans prepared 6 story, 60 x 90 ft., brick and steel, East Main St. $175,000.

N. Y., Jamaica—THEATRE—Paramount Theatres, Inc., Paramount Bldg., New York City, having sketches made by J. Eberson, 250 West 57th St., New York City, theatre, Jamaica Ave., here. $1,000,000.

N. Y., New York — APARTMENT — Ridansky & Levy (owners and builders), 424 Madison Ave., having sketches made by R. Candela, 578 Madison Ave., 15 story, 76 x 100 ft., brick and steel, plain foundation, 445 East 57th St.

N. J., Bayonne—CITY HALL—Bd. Council, City Hall, receiving sketches from selected architects, 4 story and basement, brick and steel, plain foundation. $150,-000 Engineer and architect not selected. Noted Sept. 29.

N. J., East Orange — APARTMENT — Altshulter & Cohen, c/o E. V. Warren, archt., Essex Bldg., Newark, having plans prepared 4 story and basement, 50 x 150 ft., brick and steel, plain foundation, 57 Chestnut St. $150,000.

N. J., Elizabeth—STORE and APARTMENT—S. Binder, 120 Broad St., having plans prepared by W. L. Finne, 91 Broad St., 3 story and basement, brick and steel, plain foundation, 701-11 Grove St., $150,000.

N. J., Newark—APARTMENT—S. Goldberg, c/o E. V. Warren, archt., Essex Bldg., having plans prepared 4 story and basement, 50 x 150 ft., brick and steel, plain foundation, Clinton Pl. and Hansbury Ave. $150,000.

N. J., Newark—HOTEL—Robert Treat Hotel Co., 154 Park Pl., having plans prepared by Guilbert & Betelle, 20 Branford Pl., 16 story and basement, brick and steel addition, 44 Park Pl. $500,000. Noted Aug. 18.

N. J., Passaic—APARTMENT—L. Stein, 231 Lexington Ave., having plans prepared by E. V. Warren, Essex Bldg., Newark, 4 story and basement, 50 x 150 ft., brick and steel, plain foundation, 190-2 Lexington Ave. $150,000. Noted Sept. 29.

N. J., Rutherford—OFFICE—Pub. Serv. Production Co., archts., 80 Park Pl., Newark, soon lets general contract 2 story and basement, 60 x 140 ft., brick and steel, plain foundation, here, for Pub. Serv. Gas & Electric Co., 80 Park Pl., Newark. $150,000.

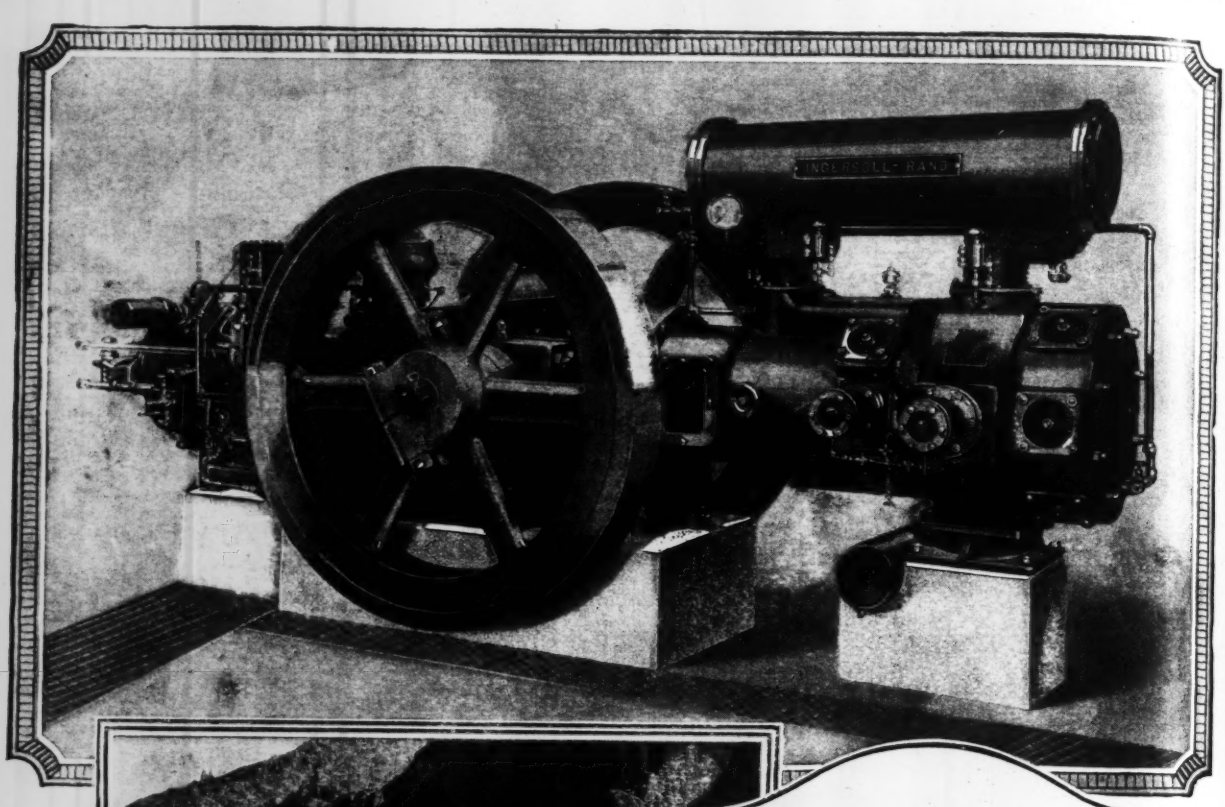
Pa., Johnstown — PASSENGER and FREIGHT STATION—Baltimore & Ohio R.R. Co., H. A. Lane, ch. engr., Baltimore, Md., soon takes bids passenger and freight station, here. $500,000.

D. C., Wash.—APARTMENT—Ell & Kay Building & Investment Co., 474 Penn. Ave. N.W., takes bids about Nov. 1, apartment, Lanier Pl., and Ontario Rd. $180,000. L. T. Rouleau, 1420 K St. N.W., archt.

Ga., Barnesville—COURTHOUSE and JAIL—Lamar Co. plans stone, rein.-con. and brick court house and jail. $150,000. J. J. Baldwin, Taylor Bldg., Asheville, N. C., archt.

Ga., Waycross — HOTEL — Wallin & Comer, archt., Realty Bldg., Savannah, soon lets contract prepared plans 100 x 100 ft., brick and steel, here, for Community Hotel Corp. $300,000.

Constr. News page 195



A Winning Combination

The Ingersoll-Rand Oil Engine Air Compressor and I-R Rock Drills are an unbeatable team in the game of cost reduction. In quarries, mines, and contract work, I-R Rock Drills are constantly demonstrating their superiority. Type POC Air Compressors have proved their reliability and low-cost operation in numerous installations.

I-R "Jackhamers," Drifters, and Steel Sharpeners are available in many sizes, each built for a specific class of work. Type POC Compressors, as illustrated above, have piston displacements of 350, 600, and 900 cu. ft.

INGERSOLL-RAND COMPANY
11 Broadway New York City

Offices in principal cities the world over
For Canada Refer—Canadian Ingersoll-Rand Co., Limited, 10 Phillips Square, Montreal, Quebec

Ingersoll-Rand

112 SOE

Buildings—Commercial (Continued)

Fla., Jacksonville—APARTMENT—R. A. Bransford & associates, had plans prepared by R. R. Seymour, 207 Hamby Bldg., 9 story and basement, 60 x 100 ft., rein.-con. and steel, 6th and Lauria Sts. $375,000.

La., New Orleans — HOSPITAL — Flint Goodridge Hospital, Canal St., plans hospital, Canal St. $500,000. Engineer and architect not selected.

Ky., Glasgow — HOSPITAL — Commonwealth Fund, 1 East 57th St., New York City, having plans prepared by H. C. Pelton, 415 Lexington Ave., New York City, 3 story and basement, 40 x 160 ft. hospital. $160,000. Noted Nov. 11.

Ky., Louisville—DEPARTMENT STORE—B. Snyder, Inc., 624 West Market St., plans 6 story and basement, 70 x 140 ft. department store, 514-520 West Market St. $500,000. Engineer and architect not selected.

O., Cleveland—HOTEL—H. H. Timken, Harrison Ave. N. W., Canton, had plans prepared by V. Redding and associates, Bird Bldg., Mansfield, 3 story and basement, 43 x 188 ft., brick, steel and concrete, East 185th St. and Lake Shore Blvd., here. $200,000.

O., Cincinnati—HOTEL—R. A. Casey Realty Co., Garfield Hotel, having plans prepared by G. W. Drach, 1701 Union Trust Bldg., 16 story and basement, 90 x 90 ft., brick and rein.-con. addition to Garfield Hotel, plain foundation, Race St. $2,000,000.

O., Cincinnati — OFFICE — Western & Southern Life Insurance Co., 9th St. and Bway., having plans prepared by A. Wachtel, Avon Bldg., 14 story and basement, 80 x 170 ft., Indiana limestone, brick and rein.-con., plain foundation, Bway. $1,000,000.

O., Dayton—BANK and OFFICE—Permanent Building & Savings Assn., 102 East 5th St., having plans prepared by C. F. Cellorius, 906 St. Paul Bldg., 2 story and basement, 60 x 100 ft., brick and steel, plain foundation, North Ludlow St. $250,000.

O., Marion—THEATRE and STORE—J. Eberson, archt., 212 East Superior St., Chicago, Ill., soon lets contract, theatre and store, Center and Campbell Aves, here, for Young Amusement Co., Gary, Ind. $400,000.

Ind., Indianapolis — APARTMENT — W. N. Harding, 206 Hume-Mansur Bldg., having preliminary plans prepared 5 story and basement, 56 x 120 ft., rein.-con. and brick, Meridian and 28th Sts. $175,000. Engineer and architect not selected.

Mich., Detroit — APARTMENT—Owner, c/o P. R. Rossello, archt., 406 Congress Bldg., had plans prepared 4 story and basement, 82 x 140 ft., brick and steel, plain foundation, Waterloo Ave. $225,000.

Mich., Detroit—APARTMENT—Owner, c/o R. Finn, archt., 415 Brainard St., having plans prepared 12 story and basement, 100 x 200 ft., rein.-con., brick and steel, plain foundation, Northwest section. $1,500,000.

Mich., Detroit — OFFICE — Griswold Amusement Co., 1313 Dime Bank Bldg., having plans prepared by A. Kahn, 1000 Marquette Bldg., 15 story (ultimately 17 story) and basement, 100 x 152 ft., rein.-con., brick and steel, plain foundation, Griswold St.

Mich., Pontiac—BANK and OFFICE—Peoples State Bank, North Saginaw St., having plans prepared 14 story and basement, 70 x 140 ft., rein.-con., brick and steel, plain foundation, North Saginaw St. $1,000,000. Engineer and architects names withheld.

Ill., Chicago — APARTMENT, STORE and OFFICE — J. Kulp & Co., 29 South La Salle St., having plans prepared by A. S. Alschuler, 28 East Jackson Blvd., 3 story and basement, 100 x 140 ft., rein.-con., brick and stone, Madison St. and Locus Ave. $500,000.

Ill., Chicago — OFFICE and WAREHOUSE — General Tire & Rubber Co., 1312 South Michigan Ave., having sketches made by N. M. Dunning, 25 East Jackson Blvd., 4 story, rein.-con. and brick, Cottage Grove Ave. and 23rd St. $250,000.

Ill., Chicago—OFFICE and STORE—Fox & Fox, archts., 38 South Dearborn St., preparing plans and soon takes bids 3 story and basement, 80 x 145 ft., rein.-con., brick and stone, West Randolph and Ada Sts., for Amer. Bulb Co., 182 North Wabash Ave. $200,000.

Wis., Madison—CLUB—Madison Catholic Community Club had preliminary sketches made by Flad & Moulton, 300 Amer. Exch. Bank Bldg., 2 story and basement, 80 x 150 ft., brick, rein.-con., stone and terra cotta, plain foundation. $175,000.

Minn., Minneapolis—ADMINISTRATION—Lakewood Cemetery Assn., 3600 Hennepin Ave., C. S. Langdon, pres., having plans prepared by E. Kennedy, 510 Essex Bldg., 2 story and basement, rein.-con. and cut stone, in Lakewood Cemetery. $150,000.

Mo., Cape Girardeau — HOTEL — Cape Girardeau Hotel Co., C. L. Harrison, pres., a toffice R. K. Knox, superv. archt., 424 H. H. Bldg., soon lets contract 6 story and basement, 42 x 82 ft., and 43 x 126 ft., rein.-con., brick and terra cotta, Bway. and Fountain St. $250,000. Manske & Bartling, 410 North Euclid Ave., St. Louis, archts. Noted Sept. 29.

Mo., St. Louis — HOTEL — Lafayette Realty Co., c/o P. J. Bradshaw, archt., International Life Bldg., having preliminary plans prepared 23 story, power and basement, 70 x 100 ft., rein.-con., brick and steel, 12th and Olive Sts.

Ark., Belle Vista—HOTEL—Linebarger Bros. having preliminary plans prepared by A. Clark, Rogers, 75 room hotel, rein.-con., brick and stone hotel.

Tex., Houston—MARKET—J. C. McVea, city engr., soon takes bids 1 story and basement, 200 x 400 ft. market, Smith and Preston Sts., for City, c/o O. F. Holcombe, mayor. $400,000. Noted May 5.

Tex., Plainview—OFFICE and STORE—Kerr & Walsh, archts., 410 Amarillo Bldg., Amarillo, take bids about Oct. 26, 4 story and basement, 50 x 140 ft., rein.-con. and brick, here, for H. E. Scaggs, Amarillo. $200,000.

Tex., San Antonio—CLUB—Avalon Club Hotel Properties, Inc., c/o P. Loring, pres., 206 Jefferson St., having plans prepared by R. H. Cameron, 1116 City Natl. Bank Bldg., and takes bids latter part of month, 1 and 2 story, 45 x 200 ft., native uncut stone, and rein.-con., plain foundation in Medina Lake 30 mi. west of here. $150,000.

Tex., San Antonio—GARAGE—Motoramp Garage, Inc., c/o A. O. McCracken, Jr., 215 North Alamo St., having preliminary plans prepared fireproof storage garage, 500 car capacity. $150,000.

Tex., San Antonio — HOSPITAL and HOME—Woodmen of the World, c/o W. A. Fraser, commander, Omaha, Neb., purchased 30 acre site near here, and plans hospital addition, old members, old ladies and crippled childrens homes, fireproof. $1,000,000. Engineer and architect not selected.

Tex., San Antonio — HOTEL — H. J. Shearer, 303 Mary Louise Dr., having plans prepared by H. T. Phelps, Hick Bldg., remodeling present 3 story and constructing 4 story, 120 room rein.-con. and brick top addition, Nueva and Garden Sts. $250,000.

Tex., San Antonio—STORAGE GARAGE—H. J. Shearer, 303 Mary Louise Dr., having plans prepared 6 story, 160 x 167 ft., rein.-con., brick and tile, plain foundation, East Houston St. between Bowie and Nacogdoches Sts. $450,000. Private plans.

Okla., Guthrie—COURT HOUSE—Logan Co., having preliminary plans prepared 3 story and basement, rein.-con. and brick, plain foundation, Vilas St. $175,000. Engineer and architect not selected.

Okla., Muskogee — COURT HOUSE — Muskogee Co., c/o L. D. Martin, clk., had plans prepared by Layton, Hicks & Forsythe, Braniff Bldg., Oklahoma City, and takes bids about Oct. 15, 4 story and basement, rein.-con., stone and brick, plain foundation. $350,000. Noted Sept. 1.

Okla., Sallisaw—COURT—Sequoyah Co. having preliminary plans prepared 3 story and basement, brick, plain foundation, Oak St. $200,000. Engineer and architect not selected.

Okla., Seminole—HOTEL—C. J. Harper (promoter) c/o A. C. Davis & Son, archts., Shawnee, having plans prepared 5 story and basement, 125 x 1,400 ft., rein.-con. and brick hotel, here.

Okla., Tulsa—GARAGE—N. B. Fleming, archt., Bliss Bldg., preparing plans 4 story and basement, 100 x 140 ft., brick, terra cotta and stone, Cincinnati St. $150,000. Owners name withheld.

Okla., Tulsa — HOTEL — Mincks Hotel Corp., 4th St., having plans prepared by A. C. Fahry, Cheyenne St., 12 story and basement, 70 x 140 ft. hotel, 4th St. $410,000.

Okla., Tulsa—OFFICE—C. P. Alexander, Alexander Bldg., having plans prepared 10 story and basement, 100 x 140 ft. Main St. $425,000. Engineer and architect not selected.

Calif., Los Angeles—APARTMENT—C. L. Cockfield having plans prepared by A. LeBrun, Palmer Bldg., 5 story and basement, 80 x 178 ft., brick and rein.-con., Hayworth Ave. near Franklin St. To exceed $150,000.

Calif., Los Angeles — APARTMENT — Lilly-Fletcher Syndicate having preliminary plans prepared by Walker & Eisen, 1117 Western Pacific Bldg., 13 story and basement, brick and rein.-con., Kenmore Ave. near Wilshire Blvd. $1,250,000.

Calif., Los Angeles — STORE and OFFICE — A. Frank, general mgr. Ambassador Hotel, having tentative sketches made by Walker & Eisen, 1117 Western Pacific Bldg., 13 story and basement, 80 x 150 ft., rein.-con., 10th and Olive Sts. To exceed $150,000.

Calif., San Francisco—APARTMENT—A. H. Larsen, archt., 447 Sutter St., preparing plans 6 story and basement, steel and rein.-con., Western addition. $250,000. Owner's name withheld.

Calif., Santa Barbara—HOTEL—A. L. Richmond, et al, c/o G. S. Underwood, archt. Hibernian Bldg., Los Angeles, having plans prepared 3 story and basement, approximately 215 x 435 ft., rein.-con., State St. $500,000.

Calif., South Pasadena (Ind. br. Pasadena)—CLUB and THEATRE—Pasadena Women's Club having preliminary plans prepared by Morgan, Walls & Clements, Van Nuys Bldg., probably rein.-con. and steel, Marengo Ave. $175,000.

Que., Quebec City — IMMIGRATION HOSPITAL—Federal Dept. Pub. Wks., Ottawa, Ont., plans 3 story, brick, steel and stone addition, Savard Park, here. $150,000.

Bids Desired

Conn., Stamford—OFFICE, STORE and APARTMENT—Gruber & Mernstein, c/o F. Urso, archt., Spelke Bldg., 432 Main St., taking bids 2 and 4 story, 55 x 75 ft., and 55 x 80 ft., brick and steel, Forest and Prospect Sts. $150,000.

N. Y., Binghamton—STAFF ACCOMMODATIONS and NURSES HOME—Oct. 26, by Dept. Mental Hygiene, Albany, constructing staff accommodations and nurses home, at Binghamton State Hospital, here. S. W. Jones, Capitol, Albany, state archt.; adv. E. N.-R. Oct. 13. Noted June 23.

N. Y., Corning—HOTEL—Oct. 14 (extended date), by Thomas, Martin & Kirkpatrick, archts., 210 South 16th St., Phila., Pa., 5 story and basement, 70 x 106 ft., rein.-con., brick and steel, plain foundation, here, for Corning Hotel Corp. Noted Oct. 6.

N. Y., Rockville Center—HOSPITAL—Oct. 25, by Hart & Shape, archts., 247 Park Ave., New York City, 3 story, brick and steel, plain foundation, here, for Rockville Center Hospital Assn., Park Ave. $250,000. Noted Aug. 4.

N. J., Grantwood—APARTMENT—See "Contracts Awarded."

Pa., Phila.—BANK—Oct. 14, by Ritter & Shay, archts., Packard Bldg., 4 story and basement, 77 x 160 ft., rein.-con., brick, steel and granite, plain foundation, Broad and Stiles Sts., for Broad Street Trust Co., c/o S. E. Krans, Juniper and Walnut Sts. Noted June 23.

Md., Baltimore—SERVICE—Oct. 18, by J. E. Sperry, archt., Calvert Bldg., Monument St. and Bway., altering concrete and brick service building, Monument St. and Bway., for Johns Hopkins Hospital, Monument St. and Bway. $150,000. H. F. Doeleman, 516 North Charles St., engr.

D. C., Wash.—APARTMENT—See "Contracts Awarded."

O., Chagrin Falls (br. Cleveland)—CLUB—Chagrin Valley Country Club, H. D. Sims, pres., 720 B. F. Keith Bldg., Cleveland, taking bids 1 and 2 story, 149 x 192 ft., brick, steel and concrete, S.O.M. Center Rd., here. $150,000. Maier & Walsh, 7016 Euclid Ave., Cleveland, archts.

Ind., Kokomo — COURT HOUSE and WAR MEMORIAL—Comrs. Howard Co., O. Butcher, aud., taking bids 3 story and basement, 100 x 150 ft., steel, stone and marble court house and war memorial. $500,000. O. Cook, 622 Armstrong St., archt. Noted June 30.

Mich., Detroit — APARTMENT — F. O. Varney, archt., 2847 Grand River Ave., taking bids 3 story and basement, 144 x 170 ft., brick, steel and stone, plain foundation, Putnam Ave. $300,000. Owner's name withheld. Noted Sept. 1.

Mich., Detroit — THEATRE — C. W. Brandt, archt., 1016-18 Francis Palms Bldg., taking bids and open same about Oct. 25, 2 story and basement, 109 x 115 ft., rein.-con., brick and steel, plain foundation, Michigan St. $200,000. Owner's name withheld.

Mich., Grosse Pointe (br. Detroit) — CLUB — Oct. 18, by Grosse Pointe Yacht Club, J. French, secy., 408 West Fort St., 3 story, rein.-con. and brick, plain foundation, Vernier Rd. $200,000. Former bids rejected. Henry & Richmond, 12 West St., Boston, archts.

Ill., Chicago—APARTMENT and STORE—Cramer & Foot, 65 East 79th St., taking bids 3 story and basement, 125 x 175 ft., rein.-con., brick and stone, 79th and State Sts. $400,000. J. Hocke, 1604 East 79th St., archt.

Constr. News page 195a

Buildings—Commercial (Continued)

Wis., Milwaukee — WAREHOUSE—Van Ryn & De Gelleke, archts., 114 Wisconsin Ave., taking bids 3 story and basement, 120 x 270 ft., rein.-con. and brick, plain foundation, Green Bay St. Owner's name withheld.

Wis., Milwaukee — WAREHOUSE — C. Ringer & Son, archts., 342 Bway., taking bids 3 story and basement, 63 x 180 ft., rein.-con. and brick, plain foundation, Detroit St. Owners name withheld.

Ark., Bentonville—COURT HOUSE—Oct. 20, by Benton Co., c/o W. R. Edwards, judge, 2 story gallery and basement, 74 x 120 ft., rein.-con., brick and cut stone court house. $200,000. A. O. Clarke, Rogers, archt. Noted May 26.

Tex., Mineral Wells—HOSPITAL—Lang & Witchell, archts., 300 Amer. Exch. Bank Bldg., Dallas, taking bids 5 story, 50 x 120 ft., brick, stone and rein.-con., here, for Crazy Well Water Co.

Okla., Muskogee—COURT HOUSE—Oct. 25, by W. H. Pritchett, clk. Muskogee Co., 3 story and basement, 116 x 212 ft. rein.-con. and brick, plain foundation. $300,000. Layton, Hicks & Forsythe, Braniff Bldg., Oklahoma City, engrs. Noted Oct. 13.

Okla., Tulsa—OFFICE—Oct. 24, by T. C. Ritts, c/o Oklahoma Natl. Gas Corp., 117 West 4th St., 10 story and basement, 47 x 140 ft., brick, stone and terra cotta, plain foundation. $700,000. A. M. Atkinson, Mid-Continent Bldg., archt. Noted Oct. 6.

Wash., Seattle—CIVIC AUDITORIUM—Oct. 28, by Bd. Pub. Wks., civic auditorium 7,500 seating capacity; arena, 3,000 seating capacity and dining room 2,000 seating capacity, 3rd and Mercer Sts. $1,000,000. Schack, Young & Myers, Central Bldg., archts. Noted Oct. 6.

Calif., Los Angeles—APARTMENT—R. M. Bates, archt., 660 South Vermont St., taking bids 6 story and basement, brick, South Ardmore Ave. $150,000 or more. Owners name withheld.

Calif., Redlands — GYMNASIUM — See "Contracts Awarded."

Contracts Awarded

N. Y., New York — GARAGE — C. E. Appleby Estate, c/o Weinberger & Weishoff, engrs. and archts., 247 Park Ave., 104 x 200 ft. garage, 623 West 57th St., to T. J. Murphy Co., 2 West 45th St. Archts. est. $150,000.

N. Y., New York—HOTEL and APARTMENT—Two Hundred Forty-Four West 72nd St. Corp., c/o G. and E. Blum, archt., 415 Lexington Ave., 15 story hotel and apartment, on 60 x 82 ft. site, 244 West 72nd St., to Boudin Constr. Co., 70 West 40th St. Archts. est. $440,000.

N. J., Grantwood — APARTMENT — Owner, c/o A. DePaola, archt., 106 18th St., New York City, will build 5 story and basement, 40 x 155 ft., brick and steel, plain foundation, Anderson Ave. $150,000. Work will be done by separate contracts. Noted Sept. 8.

Pa., Phila.—TEMPLE—H. W. Castor, archt., St. Girard Bldg., 3 story, mezzanine and basement, 53 x 82 ft., rein.-con., brick and steel, plain foundation, Fitzwater and Noble Sts., to H. P. Schneider, 3713 Old York Rd., for United Supreme Council Ancient and Accepted Scottish Rite of Masonry, Broad and Race Sts. Noted July 21.

Pa., Phila. — THEATRE — B. J. Krapp, archt., 1 West 47th St., New York City, 1 story, balcony and basement, 105 x 143 ft., rein.-con., brick, steel and terra cotta, plain foundation, Quincy and Walnut Sts., to J. W. Patience, 415 Lexington Ave., New York City, for Lee and J. J. Shubert, 225 West 44th St., New York City. Noted Sept. 1.

D. C., Wash.—APARTMENT—D. L. Stern (owner and archt.) 1412 Eye St. N.W., will build apartment, 49 Eye St. N.W. $200,000. Work will be done by separate contracts.

Ala., Birmingham — HOSPITAL — Bd. Revenue, Jefferson Co., 3 story, 75 x 150 ft., brick, addition to Hillman Hospital, 20th St., to A. J. Krebs Co., Walton Bldg., Atlanta, Ga., $383,900. Former contract rescinded. Noted Apr. 21.

La., New Orleans—FURNITURE STORE—M. Barnett Furniture Co., 541 Baronne St., general contract 8 story, 103 x 150 ft., rein.-con., wood pile foundation, Carondelet St., to R. P. Farnsworth & Co., Canal Commercial Bldg., $324,376.

O., Canton—APARTMENT—Market-19th Co., c/o John Sherwood Kelly, archt., 4216 Prospect Ave., Cleveland, 3 story and basement, Market Ave. N., here, to E. Crump, 4031 Bigelow Blvd., Pittsburgh, Pa., $250,000. Noted June 23.

O., Cincinnati—APARTMENT—D. Fabe, Southern Ohio Bank, 3 story and basement, 150 x 190 ft., brick and rein.-con., plain foundation, Salutarius St., to A. Schuholz, 2920 Erie Ave. $160,000.

O., Cincinnati—AUTO SERVICE—Daylight Realty Co., 718 1st Natl. Bank, 5 story and basement, brick and rein.-con., plain foundation, 6th and Court Sts., to Hillsmith & Co., Union Trust Bldg., $300,000. Noted Sept. 29.

O., Cincinnati — OFFICE — Fountain Square Building Co., 1400 Gilbert Ave., 20 story and basement, 33 x 100 ft., brick and rein.-con., plain foundation, 5th and Walnut Sts., to J. and F. Harig, 1240 Queen City Ave., $1,000,000. Noted Sept. 29.

Ind., Hammond—APARTMENT—F. C. Deming, general contract 3 story and basement, 83 x 100 ft., brick and steel, State Line and Ruth St., to R. C. Cenek, Gary. Archts. est. $165,000.

Mich., Detroit—STORE—Smith, Hinchman & Grylls, archts. and engrs., 800 Marquette Bldg., 8 story and basement, 40 x 150 ft., rein.-con., brick and steel, caisson foundation, to W. E. Wood Co., 1805 Ford Bldg. Noted Sept. 29.

Ill., Chicago — APARTMENT HOTEL — Lowenberg & Lowenberg, associated archts., 111 West Monroe St., masonry contract 21 story, 74 x 104 ft. brick, 101-109 East Delaware Pl., to Adolph Lindstrom Co., 77 West Washington St., plumbing, to H. Litvin, 3306 Armitage Ave., for Delaware Building Corp., c/o Klaber & Grunsfeld, archts. and part owner, 431 North Michigan Ave. Archts. est. $1,500,000. Noted July 7.

Ill., Chicago—APARTMENT and STORE—R. B. Cook, 3800 South Kedzie Ave., masonry contract 3 story, 150 x 170 ft., brick, 3727-39 Milwaukee Ave., to D. M. Reid, 140 South Dearborn St.; carpentry work, to L. Zweirs, 8033 Loomis St. Archts. est. $280,000.

Ill., Chicago — APARTMENT — R. R. Myers, 5509 Hyde Park Blvd., general contract 16 story, brick and Bedford stone, on 50 x 150 ft. site, 5522 Hyde Park Blvd., to Heggeman-Harris Corp., 431 North Michigan Ave. Archts. est. $550,000.

Ill., Chicago — APARTMENT — K. W. Vitzhum & Co., archts., 307 North Michigan Ave., general contract 14 story, 145 x 185 ft., brick and terra cotta, Sheridan Rd. and Surf St., to Callner Constr. Co., 134 North La Salle St., for Syndicate, c/o architects. Archts. est. $2,000,000.

Ill., Chicago — HOTEL and CLUB — Bryn Mawr Beach Building Corp., 5531 Sheridan Rd., masonry contract 19 story, 225 x 225 ft., brick, 5531-59 Sheridan Rd., to W. B. Ewer, 155 East Superior St. Archts. est. $4,050,000. Noted Sept. 22.

Wis., Stevens Point—HOSPITAL—St. Marys Convent, Marshfield, 4 story and basement, rein.-con., brick, stone and steel addition, plain foundation, here, to Hutter Constr. Co., Fond du Lac. $200,000, cost plus percentage basis. Noted July 28.

Tex., Dallas — OFFICE — Guardian Investment Co., c/o J. H. Burt, pres., Magnolia Bldg., 11 story, 50 x 100 ft. office building, Patterson and Ervay Sts., to Churchill-Humphreys Co., 207 Magnolia Bldg., $400,000.

Tex., Temple—HOTEL—F. Doering, 9 story and basement, brick, stone, steel and rein.-con., 4th and Central Sts., to C. L. Shaw, 767 Lamar St., Dallas, $250,000. Noted June 30.

Okla., Norman—INFIRMARY—State Bd. of Affairs, Oklahoma City 2 story and basement, rein.-con., brick and stone, here, to C. M. Dunning Constr. Co., 420½ North Hudson St., Oklahoma City, $124,000. Noted Sept. 1.

Okla., Supply — SERVICE — Western Oklahoma State Hospital, 2 story and basement, rein.-con., brick and stone, to Mann Co., Cotton Exch. Bldg., Oklahoma City, $162,400.

Nev., Reno—HOSPITAL—St. Marys Hospital Corp., c/o A. Caldwell, archt., 918 Harrison St. San Francisco, Calif., 3 and 4 story, rein.-con., hospital, to Barrett & Hilp, 918 Harrison St., San Francisco, Calif., approximately $250,000.

Wash., Seattle—BANK—Bank of California, Fidelity Bldg., Tacoma, 5 story and basement, 75 x 120 ft., rein.-con., marble and bronze, Pacific Ave., to J. E. Bonnell & Son, 827 North Tacoma St., Tacoma. Archts. est. $600,000.

Calif., Glendale—BANK and OFFICE—Pacific Southwest Trust & Savings Bank, c/o Dodd & Richards, archts., Black Bldg., Los Angeles, 6 story, 50 x 150 ft., terra cotta, steel and rein.-con., Brand Blvd. and Bway., to C. Thoren, 5613 West 4th St., Los Angeles, $340,000. Noted July 28.

Calif., Los Angeles—APARTMENT—C. E. Adams, 2404 11th Ave., 5 story and basement, 50 x 129 ft., plaster and art stone, 1236 North Edgemont St., to J. T. Payne; 426 Western Mutual Life Bldg., $150,000.

Calif., Oakland—CLUB—Miller & Warnecke, archts., 1404 Franklin St., 7 story and basement, brick and steel, to C. W. Heyer, Mills Bldg., San Francisco, for Women's City Club. $207,500. Noted Oct. 6.

Calif., Pasadena—THEATRE and OFFICE—F. B. Cole, 5 story, mezzanine, balcony and basement, 110 x 170 ft. theatre portion and 90 x 116 ft. office section steel and rein.-con., Colorado and Hudson Sts., to P. A. Palmer, 705 Insurance Exch. Bldg., Los Angeles, approximately $500,000.

Calif., Sacramento — WAREHOUSE — Zellerbach Paper Co., 534 Battery St., San Francisco, 3 story, rein.-con., Front St., to Barrett & Hilp, 918 Harrison St., San Francisco, approximately $150,000.

Calif., San Jose—HOTEL and STORE—Rendel Estate, c/o Binder & Curtis, archts., 3 story and basement, rein., South 1st St., to H. C. Jorgensen, 63 West Santa Clara St., $150,000. Noted May 26.

Ont., Niagara Falls — HOTEL — General Brock Hotel Co., A. L. Brooks, pres., 72 Main St. E., Welland, 11 story and basement, 139 x 205 ft., brick and steel, Ontario Rd., here, to Piggott & Healey Constr. Co., 36 James St. S., Hamilton. Archts. est. $1,000,000.

Buildings—Industrial

Proposed Work

N. J., Raritan—GAS FACTORY—International Combustion Eng. Corp., plans gas factory, north bank Raritan River. $50,000. Private plans.

Tenn., Johnson City — CREOSOTING PLANT—Tenn. Creosoting Co., (subsidiary Cook Tie & Pole Co., Commercial Terrace Bldg., Phila., Pa.), plans timber plant, incl. yard, tanks, etc.

Tenn., Memphis—LAUNDRY—A. Scharr, c/o Kraus Cleaners, Madison Ave., had plans prepared by Jones & Furbringer, Porter Bldg., 2 story, 126 x 240 ft., with L, 45,000 sq.ft. floor space, rein.-con. and brick, Linden Ave. $200,000 incl. equipment. Model Bluff City Laundry, 282 Poplar Ave., lessee.

O., Canton—INDUSTRIAL—Eng. Dept. Union Carbon & Carbide, 30 East 42nd St., New York City, takes bids about Oct. 15, oxygen plant, here, for Linde Air Products Co. (subsidiary of Union Carbon & Carbide, 30 East 42nd St., New York City).

O., Cleveland—ENGINE HOUSE and FAN ROOM—New York Central R.R., Co., A. C. Harvey, ch. engr., West 3rd St. and St. Clair Ave., had plans prepared by G. Herr, c/o owner, 1 story, 20 x 364 ft. engine house addition, and 30 x 30 ft. fan room, both brick, and steel, East 152nd St. To exceed $80,000.

O., Dayton — FACTORY — U. S. Corrugated Fiber Box Co., 1315 Martindale St., plans 3 story and basement, brick and rein.-con., Home Ave. $275,000.

O., Delphos — FACTORY — Brandt Bros. Furniture Co., Celina, having sketches made rebuilding factory, recently destroyed by fire, here. $200,000. Private plans.

Mich., Detroit—PAINT FACTORY—Boydell Bros. White Lead & Color Co., 432 East Lafayette St., having plans prepared by Halpin & Jewell, 1024 Hammond Bldg., 1 story, 40 x 45 ft., 40 x 75 ft., 47 x 100 ft and 40 x 100 ft., also 2 story, 40 x 100 ft. factory buildings, and 30 x 40 ft. power house, rein.-con. and brick, plain foundations, East Lafayette Ave. Noted Sept. 8.

Ia., Ft. Dodge — HYDRO-ELECTRIC PLANT, etc.—Central States Light & Power Co., plans hydro-electric plant and dam on Des Moines River at Dolliver Park. $500,000. J. H. Leamy, Ft. Dodge, engr.

Mo., Marshall—AIR PLANT FACTORY—N. Blozley Airplane Co., R. Nicholas, pres., having plans prepared airplane factory, rein.-con. and steel factory. $50,000. Private plans.

Mo., North Kansas City — SUGAR REFINERY — Corn Products Refining Co., having plans prepared sugar refinery, rein.-con. $1,000,000. Private plans.

Texas — COLD STORAGE PLANTS — Central Power & Light Co., c/o Frost Bldg., San Antonio, having preliminary surveys made three 1 story, brick and concrete plants, one at Donna, $30,000 incl. machinery, one at Olmito $30,000, and other Sebastian $40,000. Private plans.

Tex., Alamo—COLD STORAGE PLANT—Central Power & Light Co., c/o F. O. Ludden, mgr., San Benito, and Frost Bldg., San Antonio, having preliminary surveys

Constr. News page 196

Buildings—Industrial (Continued)

made 1 story, concrete and brick plant. $45,000. Private plans.

Tex., Brownsville — COLD STORAGE PLANT—Central Power & Light Co., c/o Frost Bldg., San Antonio, and F. C. Ludden, div. mgr. San Benito, making plans cold storage plant, brick and concrete, here. $40,000. Private plans.

Tex., Galveston — DAIRY — Galveston Model Dairy Co., 706 23rd St., made plans fireproof dairy. $45,000 incl. machinery. Private plans.

Tex., Harlingen — COLD STORAGE PLANT—Valley Electric & Ice Co. (subsidiary of Central Power & Light Co., c/o Frost Bldg., San Antonio), making preliminary plans cold storage plant, 100 car capacity. $60,000. Private plans.

Tex., Houston — FACTORY — J. Finger, archt., 422 Keystone Bldg., soon lets contract 3 story and basement, 119 x 210 ft., rein.-con., brick, tile and stone, Preston Ave. for C. W. Scott Mfg. Co., 701 Rusk Ave. $175,000. Noted Sept. 29.

Tex., McAllen — PACKING PLANTS — Tex. Citrus Growers Exch., Mission, c/o J. Sharry, pres., soon takes bids 1 story packing plant, here, and one in Weslaco. $75,-000 each. Private plans.

Tex., Mission — PACKING PLANT — Texas Citrus Fruit Growers Assn., c/o J. Sharry, pres., purchased site and plans 1 story citrus and vegetable packing plant, brick, stone and concrete. $75,000. Private plans.

Tex., Nacogdoches—BRICK and TILE PLANT—A. W. O'Hare & F. R. Covert, Hamilton, plan large brick and tile plant. $300,000. Noted Aug. 11.

Tex., San Antonio—ICE PLANT—Alford Pure Milk & Ice Co., c/o R. W. Alford, c/o Phelps & DeWees, archts., 718 Gunter Bldg., having plans prepared 1 story, rein.-con., brick, hollow tile and stucco, plain foundation, Garden-Presa and Devine Sts. $125,000 incl. machinery.

Tex., Sweetwater—ICE and STORAGE PLANT—Citizens Ice Co., c/o G. Sample, mgr., plans 25 ton capacity ice plant and 100 ton capacity storage plant. $40,000. Work may be done by day labor. Private plans.

Tex., Texas City—LIGHT and POWER PLANT—Texas-Louisiana Power Co., Galveston, having preliminary plans and surveys made light and power plant here, $300,000; also transmission lines between Dickinson and League City and Texas City via San Leon to Clifton-by-the-Sea, $100,-000. Private plans.

Tex., Victoria — PLANING MILL — Victoria Plaining Mill, c/o W. Sample, Victoria, having plans prepared 60 x 100 ft. concrete and timber mill. $40,000. Work may be done by day labor. Private plans.

Tex., Weslaco—PLANTS—Sinclair & Shane Co. had plans prepared and soon takes bids concrete, brick and tile, one here, and other Harlingen. $35,000-$45,-000 each. Private plans.

Okla., Wagoner—LIGHT PLANT—Voted $57,000 bonds, electric light plant.

Okla., Wewoka—ICE PLANT—Shawnee Ice Co., c/o E. W. Hill, pres., having preliminary plans prepared addition, 75 to 150 tons p.d., also equipment. $85,000. Private plans.

Calif., Los Angeles—LAUNDRY—W. J. Saunders, archt., Laughlin Bldg., rejected bids 2 and 3 story (ultimately 6 story) 145 x 235 ft., steel and rein.-con., Highland and Willoughby Aves., for Community Laundry, c/o architect. Noted Oct. 6.

Bids Desired

Mass., Boston — MILL — See "Contracts Awarded."

N. Y., Harrison—TYPE FOUNDRY—Oct. 17, by Ballinger Co., archts., 100 East 42nd St., New York City, 15 story, 349 x 620 ft., rein.-con. and brick, plain foundation, here, for Intertype Corp., 1440 Bway., New York City. Noted Sept. 29.

N. Y., New York — LAUNDRY and POWER HOUSE—Oct. 17, by B. S. Coler, comr. Welfare, Municipal Bldg., altering and additions to laundry and power house, Lincoln Hospital, Concord Ave. and 141st St.

O., Cleveland — FACTORY — Champion Machine & Forging Co., L. W. Greve, pres., 3695 East 78th St., taking bids 1 story, 89 x 178 ft., brick and steel, 3695 East 78th St. $75,000. E. McGeorge, 3030 Euclid Ave., archt. and engr.

Ind., Indianapolis — FACTORY — See "Contracts Awarded."

Mich., Detroit—AUTO FACTORY—Motor Parts Corp., 11801 Mack Ave., taking bids 1 and 2 story, 140 x 425 ft., rein.-con. and brick, plain foundation, Mack Ave. $125,000. Smith, Hinchman & Grylls, 800 Marquette Bldg., archts.

Ill., Chicago—SOAP FACTORY, etc.—Oct. 19, by R. E. Pingrey & Co., 134 South La Salle St., 8 story and basement, 75 x 206 ft. soap factory, rein.-con. and brick, 4 story and basement, 56 x 110 ft., glycerine plant concrete, brick and steel, and 1 story and basement, 102 x 140 ft., tallow terminal, rein.-con., West North Ave. and Chicago River, for J. S. Kirk & Co., 1232 South La Salle St. $1,000,000.

Calif., Los Angeles—FACTORY—Adams Pipe Wks., 2025 Bay St. taking bids 2 story, 50 x 175 ft., concrete, Bay St.

Calif., San Francisco—PIPE SHOP—L. P. Hobart, archt., Crocker Bldg., taking bids 1 story, brick annex, Brannan and 2nd Sts., for Crane Co., 2nd and Brannan Sts. $40,000. T. Ronneberg, Crocker Bldg., engr.

Calif., San Francisco — SALES and TRUCK PLANT—Voorman Co., 470 Natoma St., taking bids 1 story, rein.-con., 5th and Folsom Sts. To exceed $40,000. R. S. Chew, Rialto Bldg., engr. General Motor Truck Co., 515 Van Ness Ave., lessee.

Bids Received

N. Y., New York—SHOPS—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., Sept. 30, buildings and shops at 207th Street Yard, from Eastern Constr. Co., 26 Court St., Brooklyn, $4,170,000 (unofficial). Noted Sept. 8.

Contracts Awarded

Mass., Boston—MILL—Maverick Mills, J. J. McElenroy, in charge, 144 Addison St., East Boston, will alter 1 story, 150 x 550 ft., rein.-con. and steel plain foundation, Addison St. Work will be done by separate contracts. Private plans.

Conn., Bridgeport—FACTORY—Remington Typewriter Co., Railroad Ave., 4 story, rein.-con. and brick addition, to J. Stewart & Co., Inc., 17 East 42nd St., New York City. Archts. est. $80,000.

Conn., Hartford—SERVICE—White Co., B. M. Hoden, 750 Main St., 1 story, 150 x 150 ft., rein.-con., brick and steel, Maple Ave., to Rutherford Constr. Co., 2725 Prospect St., Cleveland, O. Archts. est. $100,000. Noted Aug. 4.

Pa., McKees Rocks—PLANT—Hachmuster Lind Chemical Co., general contract 3 story and basement, 110 x 120 ft., rein.-con. brick and steel adition, to E. H. Dobson, Birmingham Ave., Avalon. Archts. est. $50,000.

Pa., Warren—GARAGE—R. K. Russell (Buick Motor Agency), general contract 3 story and basement, approximately 100 x 100 ft., rein.-con. and brick garage, to Rust Eng. Co., 311 Ross St., Pittsburgh. Archts. est. $100,000.

Tenn., Memphis—WAREHOUSE—Fly & Hobson Grocery Co., Linden Sta., 2 story and basement, 187 x 217 ft., rein.-con. and brick, plain foundatino, Florida St., to T. J. Ozanne & Co., 306 Empire Bldg. $154,000.

O., Mogadore — FACTORY — Mogadore Insulator Co., 1 and 2 story, 100 x 200 ft., steel, brick and concrete, to Harrop Ceramic Serv. Co., 310 West Broad St., Columbus, approximately $100,000.

Ind., Indianapolis—FACTORY—Advance Paint Co., 540 West Norwood St., 1 story brick and steel, 540 West Norwood St., to E. Newall, 1315 Mills St. Archts. est. $43,000.

Ind., Indianapolis — FACTORY — Insley Mfg. Co., 801 North Olney St., will build brick and steel factory, St. Clair and Olney Sts., by day labor. $45,000. Private plans. Noted June 2.

Mich., Battle Creek—FACTORY—Sanitarium Hospital Equipment Co., 2 story and basement, 82 x 150 ft., brick and steel, plain foundation, Washington Ave., to F. J. Skidmore, Battle Creek. Archts. est. $125,000. Noted Oct. 6.

Mich., Detroit—CEMENT STORAGE—Peerless Portland Cement Co., West Jackson Ave., six 2 story, 50 ft. diam. rein.-con. silos, concrete foundation, West Jefferson Ave., to MacDonald Eng. Co., 53 West Jackson Blvd., Chicago, Ill.

Mich., Pontiac—VARNISH FACTORY—Pontiac Varnish Co., Brush St., 2 story and part basement, rein.-con., brick and steel, plain foundation, Brush St., to Brasgalla Co., 9752 Cascade Ave., Detroit. Archts. est. $50,000.

Ia., Iowa City—HEATING PLANT—State Bd. Educ., State House, Des Moines, W. H. Gimmell, secy., general contract rein.-con. and brick heating plant addition, for college, here, to Preister Constr. Co., 910 Kahl Bldg., Davenport, $40,341. Noted Sept. 1.

Mo., St. Louis—LAUNDRY—O. J. Krieg, archts., 821 Wainwright Bldg., 2 story and basement, 50 x 91 ft., rein.-con., iron and steel addition, 1517 Clark Ave., to G. Moeller, 3520 Itaska St., for Holloran-Klaus Co., c/o P. J. Holloran, 1517 Clark Ave. Archts. est. $60,000. Noted Sept. 29.

Calif., Berkeley — FACTORY—Palmolive Peet Soap Co., 6th and Carlton Sts., 3 story, rein.-con., 6th and Carlton Sts., to P. J. Walker Co., Sharon Bldg., San Francisco, $150,000 or more.

Buildings—Educational, Religious

Proposed Work

Mass., Chicopee—SCHOOL—City, J. J. Desmond, supt. Schools, having sketches made by G. H. Fugere & Son, 121 Main St., Springfield, brick and stone, McKinstry and Chicopee Sts. $150,000 or more. Noted Aug. 25.

Mass., Medford (br. Boston)—HIGH SCHOOL—City, C. H. Lowell, School Building Comrs., takes bids about Oct. 15, 3 story and basement, 65 x 180 ft., and 65 x 240 ft., brick and stone addition, to Senior High School, plain foundation, Forest St. $600,000. R. D. Kimball & Co., 6 Beacon St., Boston, engrs. C. B. Dunham, 6 Beacon St. Boston, archt. Noted Sept. 22.

R. I., Providence—CHURCH—St. Pius Chapel, A. W. Sullivan, pastor, Eaton St., plans brick and stone church. $150,000. Engineer and architect not selected.

Conn., Hartford — CHEMISTRY LABORATORY—Trinity College Trustees, R. B. Ogilby, pres., having plans prepared by Trowbridge & Livingston, archts., 527 5th Ave., and H. C. Greenley, consult. archt., 129 East 54th St., New York City, chemistry laboratory. $350,000.

Conn., New Britain—CHURCH, etc.—First Congregational Church, T. Green, pastor, having plans prepared by W. F. Brook, Lewis and Gold Sts., Hartford, church $200,000, recreation building $190,-000, parsonage $35,000, and school $20,000, all on West Main and Lexington Sts. Noted Feb. 3.

Conn., Waterbury — SCHOOL — City, School Bd., City Hall, having preliminary plans prepared by T. M. Freney, 51 Leavenworth St., 2 story and basement, brick and steel, rein.-con., plain foundation, Birch and Wall Sts. $150,000.

N. Y., Brooklyn—SCHOOL—Bd. Educ., 500 Park Ave., New York City, takes bids about Oct. 20, school, 15th Ave. and 81st St., here. $575,000. W. H. Gompert, Flatbush Ave. extension and Concord St., supt. school buildings.

N. J., Newark—HIGH SCHOOL—Bd. Educ., City Hall, Broad and Green Sts., having sketches made by Guilbert & Betelle, 20 Branford Pl., 3 story and basement, brick and steel addition, to West Side High School, plain foundation, South Orange Ave. $225,000.

Pa., Phila.—COLLEGE and HOSPITAL—W. E. Herring, pres., Hahnemann Medical College & Hospital, 15th and Race Sts., soon lets contract, 16 story, 123 x 150 ft., and 42 x 79 ft., rein.-con., steel and limestone, plain foundation, Broad and Race Sts. $2,000,000. Pettit & Ferris, 15 West 45th St., New York City, archts. Noted Sept. 29 under "Buildings-Commercial."

D. C., Wash.—CHURCH—Allen & Collins, archts., 75 Newbury St., Boston, Mass., takes bids about Oct. 15, general contract 1 and 3 story, sandstone, church and parish house, here, for Universalist Natl. Memorial Church. $1,000,000. Noted Sept. 1.

Tenn., Martin — COLLEGE — University of Tennessee, soon lets contract, for Home Economics and Science Buildings, on campus University of Tennessee Junior College, $200,000. Miller, Barber & McMurray, Knoxville, archts.

Ky., Louisville—MEMORIAL—University of Louisville plans John A. and Mary H. Crawford Memorial Building, on campus. $500,000 requested for same.

O., Cincinnati — SCHOOL — College of Sacred Heart, Lafayette Ave., having plans prepared by Fechheimer & Thorst, Schmidt Bldg., 3 story and basement, brick and rein.-con. addition, plain foundation. $350,000.

O., Cleveland — CHAPEL and MONASTERY — Carmelite Sisters, c/o Mother Superior, 11127 St. Clair Ave., having plans prepared by M. C. Rousseau, Bulkley Bldg., 1 and 2 story, brick, 11127 St. Clair Ave. $150,000.

O., Cleveland Heights (Warrensville P. O.)—HIGH SCHOOL—Bd. Educ., W. G. Nesbit, dir., 1671 Lee Rd., Cleveland, having plans prepared by J. H. Graham &

Constr. News page 197

Buildings—Educational, Religious (Cont.)

Co., 1612 Euclid Ave., Cleveland, Junior High School, 2 story and basement, brick, steel and concrete, Yellowstone Rd., here.

O., Oakwood (Dayton P.O.)—SCHOOL—Bd. Educ. having plans prepared by Schenk & Williams, 3rd Natl. Bldg., Dayton, 2 story and basement, brick and rein.-con., plain foundation, Shafor Blvd. $200,000.

Ind., Ft. Wayne — SCHOOL — Lakeside Catholic Church, 132 East Berry St., had plans prepared by J. G. Steinbach, 155 North Clark St., 3 story and basement, 80 x 140 ft., rein.-con., brick steel and stone, Delaware and Kentucky Sts. $150,000.

Ind., Ft. Wayne—NURSES HOME—St. Josephs Hospital, 702 Bway., having preliminary plans prepared by Pohlmeyer & Pohlmeyer, 260 Central Bldg., 3 story and basement, 67 x 132 ft., rein.-con., brick and steel, Berry and Van Buren Sts. $150,000.

Mich., Grosse Pointe (br. Detroit)—SCHOOL—Detroit University School, 548 Parkview Ave., having plans prepared by R. O. Derrick, 120 Madison Ave., Detroit, 2 story and basement, 70 x 200 ft., brick and steel addition, plain foundation, Parkview Ave. $175,000.

Mich., Kalamazoo—SCHOOL—Bd. Educ., H. W. Anderson, bus. mgr., having plans prepared by E. S. Batterson, 2 story and basement, 65 x 200 ft., rein.-con., brick, steel and stone, plain foundation, East Ave. $300,000.

Mich., Keego Harbor — SCHOOL — Bd. Educ., C. Fellows, secy., Cass Lake, having plans prepared by R. O. Derrick, 707 Pontiac Savings Bank, Pontiac, 2 story and basement, rein.-con., brick and steel, plain foundation, here. $150,000.

Ill., Waukegan—NURSE'S HOME and HOSPITAL—H. J. Gaul, archt., 228 East Superior St., Chicago, soon lets contract, 6 story, 150 x 150 ft., T shaped, brick, steel and hollow tile, here, for Missionary Sisters of Holy Ghost, Techny. $1,000,000.

Kan., Dodge City—HIGH SCHOOL—Bd. Educ. takes bids in November, Senior High School, rein.-con., brick and stone. $300,-000. Mann & Co., 721 Rorabough Wiley Bldg., Hutchinson, engrs.

Neb., Fremont — HOSPITAL — Missouri Synod Lutheran Congregation having plans prepared by H. C. Peterson, 425 Bankers Reserve Bldg., Omaha, 4 story and basement, 62 bed hospital, East Military Ave. $150,000.

Mo., Columbia — FIELD HOUSE — University of Missouri, c/o C. L. Brewer, dir. athletics, having preliminary plans prepared 1 story and part basement, 215 x 300 ft., rein.-con. and stone field house. $250,-000.

Tex., Harlingen — SCHOOLS — Election Oct. 22, $400,000 bonds, constructing 2 brick and concrete high schools, and improving various schools, for Bd. Educ.

Okla., Dewey—CHURCH—First Christian Church having preliminary plans prepared 3 story and basement, rein.-con. and brick, plain foundation, 3rd St. $150,000.

Okla., Shawnee—HIGH SCHOOL—Bd. Educ. having preliminary plans prepared by A. C. Davis, Shawnee, Junior High School, 3 story and basement, rein.-con. and brick, plain foundation, Highland St. $200,000.

Calif., College City—HIGH SCHOOL—Pierce Joint Union High School Dist. defeated election $150,000 bonds, high school.

Calif., Glendale—HIGH SCHOOL—Glendale Bd. Educ. having plans prepared by A. F. Priest, 719 Fay Bldg., Los Angeles, group of buildings, incl. 3 story, 64 x 365 ft. administration building, 1 story, 76 x 290 ft. shop, also 90 x 175 ft. auditorium, 64 x 180 ft. science building, 64 x 215 ft. liberal arts building, 64 x 180 ft. economics building, all foregoing 2 story, 105 x 113 ft. each, girls and boys gymnasium buildings, 45 x 200 ft. bleachers, 2,200 seating capacity, athletic field, tennis courts, etc., on Glenwood Rd. High School Site. $1,200,-000. Noted Oct. 6.

Calif., Los Angeles — UNIVERSITY—University of California having plans prepared by Allison & Allison, Hibernian Bldg., physics and biology building, approximately 100,000 sq.ft. floor space; and by G. W. Kelham, Sharon Bldg., San Francisco, chemistry and geology building, 55,000 sq.ft. floor space, both 3 story and basement, on Westwood Campus.

Calif., Los Angeles—MUSEUM—Supervs. Los Angeles Co., rejected bids Sept. 19, 3 and 4 story and basement, 150 x 500 ft., steel and rein.-con., Exposition Park. $1,-250,000. Noted Aug. 25.

Bids Desired

Vt., Rutland—HIGH SCHOOL—Oct. 17, (extended date), by A. W. Perkins, mayor, City Hall, 3 story and basement, 20 x 215 ft., brick and stone, plain foundation, Church St. $300,000. A. G. Creighton, 140 State St., New London, Conn., archt. R. D. Kimball Co., 6 Beacon St., Boston, Mass., engrs. Noted Oct. 6.

Constr. News page 198

Conn., Storrs—COLLEGE—Oct. 25, by D. K. Perry, archt., 17 Court St., New Britain, 3 story and basement, rein.-con., brick and steel laboratory class room and administration building, here, for Connecticut Agriculture College, F. L. Salmon, comptroller. $334,000.

N. Y., New York—SCHOOL—Oct. 25, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, P. S. 91, Aqueduct Ave., from Clinton Pl. to West 182nd St., Bronx Boro, for Bd. Educ., 500 Park Ave., New York City.

N. J., East Orange—SCHOOL—Oct. 17, by Bd. Educ., 19 Winos St., general contract 2 story and basement, 75 x 128 ft., brick and steel addition to Columbian School, plain foundation, North Grove St. $150,-000. Guilbert & Betelle, 20 Branford Pl., Newark, archts.

Ind., Danville—SCHOOL—Oct. 27, by School Trustees 2 story and basement, rein.-con., brick and steel high and grade school, incl. auditorium and gymnasium. $150,000. McGuire & Shook, 941 North Meridian St., Indianapolis, archts.

Ind., Indianapolis—CHURCH and SUNDAY SCHOOL—Presbyterian Church, G. W. Allison, pastor, 254 South Ritter Ave., taking bids 1 story and basement, rein.-con., steel and stone, Johnson and Julian Aves. $160,000. Harrison & Turnock, 500 Bd. of Trade Bldg., archts.

Mich., Lincoln Park (mail Detroit)—SCHOOL—St. Henrys Parish, taking bids 2 story and part basement, 60 x 180 ft., rein.-con., brick and steel, plain foundation, Council Ave. $150,000. O'Dell & Diehl, 710 Donovan Bldg., Detroit, archts.

Wis., Kenosha—CHURCH and SUNDAY SCHOOL—Childs & Smith, archts., 720 North Michigan Ave., Chicago, Ill., taking bids 1 story, 60 x 140 ft. church, and 79 x 145 ft. sunday school, rein.-con., brick and stone, Congress and Prairie Sts., here, for Park Ave. Methodist Episcopal Church, 454 West St. $225,000. Noted Sept. 8.

Neb., Nebraska City—HIGH SCHOOL—Bd. Educ., F. Heller, secy., taking bids Junior High School, 3 story and basement, 108 x 126 ft., rein.-con., brick and stone. $150,000. J. H. Felt & Co., 300 West 47th St., Kansas City, Mo., archts. Noted Sept. 8.

Mo., St. Louis—SCHOOL—Oct. 18, by W. B. Ittner, Inc., archts., 911 Locust St., 4 story and basement, 80 x 216 ft., rein.-con., brick and steel addition, South Kingshighway, for Central Institute for Deaf, M. Goldstein, dir., 818 South Kingshighway. $250,000. Noted Sept. 29.

Contracts Awarded

R. I., Kingston — LIBRARY, GYMNASIUM, AUDITORIUM and ARMORY—Rhode Island State College, 1 and 2 story and basement, brick, plain foundation, incl. alumni gateway, to Central Eng. & Constr. Co., 210 Main St., Pawtucket. $254,898. Noted Sept. 8.

Pa., Lansdowne—HIGH SCHOOL—Bd. Educ., c/o F. S. Underhill, 112 North Broad St., Phila., Junior and Senior High School, 2 story and basement, 79 x 390 ft., and 119 x 127 ft., brick and steel, Green and Highland Sts., to J. McShane, 1713 Sansom St., Phila., $339,487. Noted Sept. 22.

N. C., Greenville—SCHOOL—East Carolina Teachers' College new dining room, kitchen, practice school, and remodeling two old dormitories, to J. & W. Hudson, Jr., Tarboro $218,900; new power plant and heating installation to Poe Piping & Heating Co., Greenville, S. C., $63,149. Noted Sept. 15.

Ga., Rome — SCHOOL — Berry School, general contract, two buildings from 1 to 5 story, stone, to Thompson-Starrett Co., 101 Mtta. St., Atlanta, $750,000. Noted Aug. 4.

Mich., Battle Creek — CHURCH — First Presbyterian Church, 2 story and basement, 83 x 127 ft., rein.-con., brick, steel and stone, plain foundation, to H. V. Snyder, Post Bldg., Archts. est. $200,000. Noted Sept. 15.

Mich., Birmingham — SCHOOL — Bd. Educ., general contract 2 story and basement, rein.-con., brick and steel, plain foundation, Chesterfield site, to N. A. Starr, 408 South Main St. Royal Oak, $199,000.

Mich., Detroit—HIGH SCHOOL—C. A. Gadd, bus. mgr. Bd. Educ., 1354 Bway. Ave., 3 story and basement, rein.-con., brick and steel, plain foundation, Hubbell and Chalfonte Aves., to Rosewarne, McNabb & Worswick, 333 State St., $554,000; electrical work, to Kuehne Electric Co., 510 Lightner Bldg., $41,188; and heating, to J. W. Partlan, 13900 Goddard Ave., $1[illegible] 227. Grand total $713,415. Noted Sep[illegible]

Okla., Tahlequah—TEACHERS TRA[illegible]ING—State Bd. of Affairs, Capitol, [illegible]homa City 2 story and basement, 60 x [illegible] ft., rein.-con. and brick, plain founda[illegible] here to Muskogee Constr. Co., Musk[illegible] $118,900. Noted Sept. 8.

Calif., Redlands — GYMNASIUM — [illegible]versity of Redlands will build 1 st[illegible] 190 x 225 ft. rein.-con. and steel, by [illegible] labor and sub-contracts under supervi[illegible] G. P. Cortner, bus. mgr. $200,000. N[illegible] Marsh & Co., 1012 Bway. Central Bl[illegible] Los Angeles, archts. Noted Oct. 6.

Ont., Bridgeburg — HIGH SCHOOL—School Bd., general contract 3 story [illegible]d basement, 150 x 180 ft., brick, stone [illegible]d tile, Wintermute St., to Smith Bros., [illegible] Ellen St., Niagara Falls, $122,600. Noted Mar. 10.

Federal Government Work

Proposed Work

Md., Annapolis—Dredging—Spec. 551[illegible]—Bureau Yards & Docks, Navy Dept., Washington, D. C., plans dredging at Naval Academy, here.

Bids Desired

N. H., Portsmouth—Remodeling—Oct. 26, by Treas. Dept., at Office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here.

N. Y., Yonkers — Elevator — Oct. 20, by Treas. Dept., at office Supervising Archt., Wash., D.C., elevator in U. S. Post Office, here.

Pa., Phila.—Changes—Oct. 25, by Treas. Dept., at office Supervising Archt., Wash., D. C., changes at U. S. Custom house, here.

D. C., Wash.—Superstructure—Nov. 7, at office Executive Officer Arlington Memorial Bridge Comn., Navy Bldg., constructing superstructure (exclusive of bascule draw span) Arlington Memorial Bridge; adv. E. N.-R. Oct. 13. Noted Feb. 11, 1926.

Tenn., Memphis—Refrigerating Plant—Oct. 25, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., refrigerating plant at U. S. Veterans hospital, here.

O., Cincinnati—Pontoons—Oct. 25, by U. S. Engineers Office steel pontoons and riveted steel pipe; adv. E. N.-R. Oct. 13.

Ind Terre Haute—Mail Lift—Oct. 27, by Treas. Dept., at office Supervising Archt., Wash., D. C., mail lift in U. S. Post Office, here.

Mich., Mt. Clemens—Sewerage system—Oct. 17, by Constructing Quartermaster, complete sanitary sewerage system for barracks, buildings, etc. Selfridge Field, here.

Mo., St. Louis—Mezzanine Floors—Oct. 20, by Treas. Dept., at office Supervising Archt., Wash., D. C., new mezzanine floors in work room. U. S. Post Office, here.

Ark., Hot Springs — Steam Distribution Lines — Nov. 3, at office Constructing Quartermaster, Army and Navy General Hospital, Hot Springs Natl. Park, outside steam distribution lines.

Tex., El Paso—Mezzanine—Oct. 24, by Treas. Dept., at office Supervising Archt., Wash., D. C., mezzanine floor at U. S. Post Office, here.

Colorado—Road—Oct. 26, by J. W. Johnson, engr. Bureau Pub. Rds., 301 Custom House, Denver, grading, 4.3 mi. Sect. 1, Delores-Rico Natl. Forest Road Project, Montezuma Co.

Wash., Puget Sound—Motor Generator Sets—Spec. 5447—Oct. 26, by Bureau Yards & Docks, Navy Dept., Wash., D. C., motor generator sets, at Navy Yard, here. Noted Oct. 6.

Bids Received

N. D., Jamestown—Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C. U. S. Post Office, here, from J. Lauritzen Co., Fergus Falls, Minn., $152,-979. This corrects report in Oct. 6 issue.

Mo., Boonville—Current Retards—U. S. Engineer Office, 707 Postal Telegraph Bldg., Kansas City, Oct. 3, constructing 600 lin.ft. current retards on Missouri River across chute in Franklin Island Bend, point 1 mi. from here, from Woods Bros. Co., 132 South 13th St., Lincoln, Neb., $31,500.

Ore., Astoria—Wharf—Treas. Dept., at office Supervising Archt., Wash., D. C., repairing wharf at Quarantine Station, here, from Gilpin Constr. Co., Astoria, $4,100. Noted Sept. 15.

Federal Government Work (Continued)

Contracts Awarded

Pa., Johnstown — Remodeling — Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling mailing platform, etc. at U. S. Post Office, here, to T. W. Cissel, Bethlehem, $4,800. Noted Sept. 29.

D. C., Wash.—Elevators—Treas. Dept., at office Supervising Archt., Wash., D. C., extending 4 electric elevators and 2 new elevators in Liberty Loan Bldg., to Haughton Elevator & Machine Co., Vermont Bldg., $8,000 and $12,790 respectively. Noted Sept. 29.

D. C., Wash.—Power Plant and Heating Building—Bureau Standards, power and heating building, to A. L. Smith & Co., 2525 Penn. Ave., $157,200. Noted Sept. 29.

Fla., Pensacola—Concrete Fire Wall—Spec. 5456—Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete fire wall at Naval Air Station, here, to A. D. Rieger & Co., Box 1836, Sarasota, $8,332. Noted Oct. 6.

Miss., Gulfport—Roads and Walks—U. S. Veterans Hospital, Arlington Bldg., Wash., D. C., roads and walks at U. S. Veterans Hospital, here, to Powers Constr. Co., Box 314, $13,594. Noted Sept. 29.

Tenn., Memphis—Shops—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., addition to main building, new shops, etc., at U. S. Veterans Hospital, here, to Batson-Cook Co., West Point, Ga., $72,700. Noted Sept. 22.

Ky., Louisville—Hospital Improvements—Treas. Dept., at office Supervising Archt., Wash., D. C., improving Marine Hospital, here, to Heady Building & Constr. Co., 1145 East St. Catherine St., Louisville, $4,000. Noted Sept. 29.

New Mexico—Road—J. W. Johnson, dist. engr. Bureau Pub. Rds., Custom House, Denver, Colo., grading 6.61 mi. Glenwood-Alma Sect., Datil Reserve-Dry Creek Natl. Forest Road Project, Catron Co., to S. Jack Heather & Skousen Bros., Lordsburg, $124,-949. Noted Aug. 11.

Utah — Road — B. J. Finch, 403 Kiosel Bldg., Ogden, grading Sects. 1 and 2 East River Road Project in Zion Natl. Park, Washington Co., to Nevada Contg. Co., Fallon, Nev., $607,058. Noted Sept. 15.

Ore., Portland—Stone—U. S. Engineer Office stone for north and south jetties, to Hansen Constr. Co., Portland, $615,000. Noted Aug. 25.

Unclassified

Proposed Work

Airport—Northampton, Mass.—Syndicate, c/o W. E. Arthur, engr. and archt., 292 Madison Ave., New York City, making plans hangar, etc., here. $150,000.

Airport—Bridgeport, Conn. — Syndicate, c/o W. E. Arthur, engr. and archt., 292 Madison Ave., New York City, making plans hangar, etc., here. $300,000.

Arena — Hartford, Conn. — Owner, c/o Funk & Wilcox Co., archts., 26 Pemberton Sq., Boston, Mass., having plans prepared 200 x 300 ft., rein.-con. arena, 8,000 seating capacity, Wethersfield Ave. and Alden St., here. Archts. est. to exceed $150,000.

Athletic Field — Red Bank, N. J. — Bd. Educ., Town Hall, having sketches made athletic field. $40,000. W. Van Kueren, Broad St., Red Bank, engr. Noted July 7.

Coke Ovens—Muskegon, Mich.—Utilities Eng. Co. had plans prepared 1 story, 20 oven, concrete and steel, plain foundation. R. H. Watkins, Muskegon, engr.

Oil Pipe Line—Texas—Transcontinental Oil Co., N. Wright Bldg., Tulsa, Okla., (subsidiary of Standard Oil Co. of New Jersey, 26 Bway., New York City, N. Y.) making plans 300 mi. probably 10 in. oil pipe line from Pecos Co. Fields (near McCamey) to Houston, here. $8,500,000. Private plans.

Transmission Line — Texas — Western Pub. Serv. Co., 72 West Adams St., Chicago, Ill., made surveys 24 mi. transmission line from La Marque to Alvin, here. $60,000. C. R. Goodman, in charge preliminary work. Private plans.

Transmission Lines—Texas—See "Buildings—Industrial, under Texas City, Tex."

Swimming Pool—Harlingen, Tex.—C. H. Lockhart plans rein.-con. swimming pool on 3½ acre site. $35,000. Engineer not selected.

Gas Mains — Palestine, Tex. — Palestine Heat, Light & Power Co., c/o J. V. Murdaugh, mgr., making plans extending 6 and 8 in. gas mains in various streets. $130,000 (material, pipe). Private plans.

Land Development—San Antonio, Tex.—Avalon Development Co., c/o B. C. Lucas, pres., 206 Jefferson St., making plans developing 1,600 acre tract, incl. macadamized roads, golf course, etc., at Medina Lake, 30 mi. west of here. Private plans.

Oil Pipe Line—Oklahoma—Texas Co., Mercantile Bldg., Oklahoma City, J. W. Williams, secy., made plans 30 mi. oil pipe line from Seminole to Stewart pumping station. $100,000. Private plans.

Transmission Line—Oklahoma—City of Purcell made preliminary plans 17 mi. 13,-200 volt transmission line between Purcell and Washington; also distribution system in Washington. $30,000. Horner & Wyatt, 468 Bd. Trade Bldg., Kansas City, Mo., engrs.

Transmission Line—Oklahoma—City of Purcell made preliminary plans 16 mi. 13,-200 volt transmission line between Purcell and Wayne; also distribution system in Wayne. $25,000. Horner & Wyatt, 468 Bd. Trade Bldg., Kansas City, Mo., engrs.

Telephone System—Colorado—Mountain States Telephone & Telegraph Co., c/o C. T. Hopkins, mgr., 112 West D. St., making surveys 220 mi. telephone cables from Pueblo to Holly. R. E. Young, 1st Natl. Bank Bldg., Denver, engr.

Piers — Seattle, Wash. — Chicago, Milwaukee & St. Paul Ry. Co., R. J. Middleton, asst. ch. engr., Seattle, making plans 480 ft. extension ocean liner pier, giving terminal docking space of 1,154 ft., with 180 ft. waterway, here. $500,000.

Standpipe Casing—Seattle, Wash.—City Council plans expending $50,000, masonry casing around Woodland Park standpipe.

Municipal Airport — Berkeley, Calif. — City making estimates grading and filling municipal airport, main runway approximately 2,000 ft. long, 200 ft. wide. $50,000 or more. J. N. Edy, city mgr.

Encampment Quarters—San Luis Obispo, Calif.—State Building Comn., Sacramento, having plans prepared by G. B. McDougall, Forum Bldg., Sacramento, permanent encampment quarters, incl. hospital, warehouses, etc. for California National Guard, here. $300,000.

Grandstands—Hamilton, Ont.—Hamilton Athletic Club, D. Chilman, secy., plans rebuilding steel and frame grandstands, Athletic Grounds, recently destroyed by fire. $80,000 loss.

Bids Desired

Station Finish—New York—Oct. 24, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, station finish work on Montrose Ave., Wilson Ave., Bushwick Ave. and Aberdeen St. Stations, 14th St.-Eastern Rapid Transit R.R., Brooklyn and Queens Boros.

Road Improvements—New York, N. Y.—Oct. 18, by Park Bd., W. R. Herrick, pres. Dept. Parks, Arsenal Bldg., Central Park, removing loose rock and facing rock cuts with rein.-con. wall in Central Park transverse roads.

Steam Heating, etc. — Phila., Pa. — See "Waterworks."

Lighting System—Buckhannon, W. Va.—See "Streets and Roads."

Pipe Line — Garber, Okla. — See "Contracts Awarded."

Floating Drydock—Oakland, Calif.—See "Contracts Awarded."

Contracts Awarded

Piers—Boston, Mass.—Dept. Pub. Wks., repairing piers at North and South Ferries, to W. H. Ellis Co., 479 Meridian St., East Boston, $22,620.

Shelter — Cambridge (Boston P. O.), **Mass.**—City, J. J. Terry, supt., 1 story and concrete shelter house, Corporal Burns Playground, to M. W. Ryan, 763 Massachusetts Ave., $22,750. Engrs. est. $25,000.

Subway—Brooklyn, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, constructing Sect. 1, Route 109, Rapid Transit R.R., here, to Carleton Co., Inc., 151 West 42nd St., New York City, $3,758,993. Noted Sept. 8.

Steel Cells—Freehold, N. J.—Bd. Freeholders Monmouth Co., steel cells in jail, to Van Doorn Iron Wks., 2585 East 79th St., Cleveland, O., $42,500.

Train Shed — Pittsburgh, Pa. — Pennsylvania R.R. Co., T. J. Skillman, ch. engr., Broad St. Sta., Phila., general contract seven 1 story, temporary train sheds and platforms at east end present sheds, Pennsylvania Station, here, to John F. Casey Co., Aspinwall. Engrs. est. $40,000.

Grade Separation — Wyandotte, Mich. — Curbing and 12,900 sq.yd. 12 in. and 4,165 sq.yd. 9 in. concrete paving in connection with Eureka Ave. Grade Separation, to Bishop & Weir, 6451 East Six Mile Rd., Detroit, $55,702. Noted Mar. 3.

Guard Rail and Anchors — Iowa — See "Streets and Roads."

Turbo-Generator, etc. — Helena, Ark.—Arkansas Utilities Co., power plant improvements, incl. 2,000 kw. turbo-generator, to Westinghouse Electric & Mfg., Co., 2311 State St., Little Rock; 600 hp. water tube boiler, to Walsh & Weidner, Co., Main and Sycamore Sts., Chattanooga, Tenn.; switchboard additions, superheaters and Beaumont coal and ash handling equipment, to General Electric Co., Southern Trust Bldg., Little Rock. Engrs. est. $200,000.

Pipe Line—Garber, Okla.—Deer Creek Pipe Line Corp., Ponca City (subsidiary of Gannett, Seelye & Fleming, Inc., 600 North 2nd St., Harrisburg, Pa.), will build 6 in. pipe line connecting with distribution system, by own forces. $65,000. Private plans.

Telephone System — Pueblo, Colo. — Mountain States Telephone & Telegraph Co., c/o C. T. Hopkins, mgr., 112 West D. St., will install telephone cables in various streets, by day labor. $75,000. R. E. Young, 1st Natl. Bank Bldg., Denver, engr.

Lighting System — Compton, Calif. — Ornamental lighting system on Long Beach Blvd., to F. Ziebarth, Farmers & Merchants Bank Bldg., Long Beach, $53,145. Noted Sept. 28.

Floating Drydock—Oakland, Calif.—General Eng. & Drydock Co., 1100 Sansome St., San Francisco, will build floating drydock, 15,000 tons, by day labor.

Wharf—St. Simon, Que.—Dominion Govt. constructing wharf, to J. W. McMames Co. Ltd., Memramcook, N. B., $25,245.

Concrete Apron —Timiskaming, Ont.—Dominion Govt., Ottawa, concrete apron adjoining Ontario sluices of Timiskaming Dam, to Farley & Grant, Hazeldean, $54,997.

Tunnel—Vancouver, B. C.—For 2½ mi. 13 x 3 ft., power tunnel, at Bridge River, to Pacific Engineers, Ltd., 827 Powell St., $1,-249,530. Engrs. est. $2,000,000. Noted Sept. 15.

Materials

Proposed Work

Gas Pipe—Cooper, Tex.—Community Gas Co. (City), plans purchasing gas pipe for mains in various streets. $10,000. Noted Sept. 8 under "Unclassified."

Water Pipe — Rio Hondo, Tex. — City plans purchasing approximately 5,000 ft. 6 and 8 in. Class "B" c.i. pipe. $12,500. Address C. A. Mellernee, Rio Hondo, supt. Waterworks and engr. Noted Sept. 29 under "Waterworks."

Bids Desired

Pipe, etc.—Muskegon, Mich.—Oct. 21, by I. L. Christiansen, city clk., 12,200 ft. 6- to 12-in. standard vitr and 6,100 ft. 15- to 36-in. d.s. No. 1 Ohio salt glazed pipe, $16,-000; 6,444 ft. 6 in. c.i. Class "B" A.W.W.A. or Class 150 De Lavaud pipe, 8 tons pig lead, etc. $14,000. H. J. Lewis, City Hall, engr.

Structural Steel—Chicago, Ill.—Oct. 18, by City, Room 406, City Hall, 225 tons structural steel, incl. railings, walkway gratings, etc., by rail or truck, at May Fair Pumping Station, 4850 Wilson Ave., for Dept. Pub. Wks. R. W. Wolfe, comr.

Water Softener—Pauls Valley, Okla.—Mayor and City Comn. in market mechanical water softener for water plant.

Lighting Posts, etc.—Sallisaw, Okla.—Bd. Comrs. Street Dept. in market 30 "White Way" posts and standards, also 4,000 ft. armored cable.

Bids Received

Pipe—Monrovia, Calif.—1,800 ft. 4 in. standard screw dipped pipe with recess couplings, from Kelly Pipe & Mchy. Co., 524 Mission Rd., Los Angeles, at $0.47 per 100 lb.

See proposal advertising on page 161

Constr. News page 199

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Sewers—Wyandotte, Mich.

Bids were opened by City, June 21, (lowest three and highest) for installing sewers in Special Assessment District No. 76, from (A) Oakwood Constr. Co., Oakwood Blvd., (awarded contract); (B) E. L. Gedney & Sons, Inc.; (C) J. E. Mercier Co.; (D) E. A. Campbell. Contractors all of Detroit. The unit bids are as follows:

	A	B	C	D
28,692 ft. 12 in. sewer	$1.15	$1.13	$1.22	$1.24
6,683 ft. 15 in. sewer	1.57	1.61	1.58	1.66
9,764 ft. 18 in. sewer	2.08	2.25	2.05	2.19
9,707 ft. 21 in. sewer	2.58	2.79	2.65	2.81
5,434 ft. 24 in. sewer	3.26	3.58	3.78	4.00
1,588 ft. 27 in. sewer	3.30	3.91	4.90	4.60
1,552 ft. 30 in. sewer	4.60	4.24	5.30	6.00
4,069 ft. 36 in. sewer	5.55	5.39	7.55	7.00
1,524 ft. 42 in. sewer	6.70	6.63	9.60	8.00
1,920 ft. 48 in. sewer	9.90	8.15	9.80	10.30
2,526 ft. 60 in. sewer	13.00	15.78	13.45	15.00
549 ft. 66 in. sewer	16.25	18.02	16.00	18.00
1,360 ft. 6 ft. 6 in. sewer	20.00	24.63	19.75	26.00
214 manholes, complete	100.00	80.00	100.00	130.00
Pumping station, West Shore Line and Alkali (lump sum)	4,500.00	4,000.00	2,500.00	4,700.00
Pumping station Beverly Ave., (lump sum)	3,000.00	5,000.00	2,500.00	2,300.00
Totals	$269,746	$282,652	$289,256	$313,327

Engineering News-Record, Issue of October 13, 1927.

Water Works—Oxford, Md.

Bids were opened by Town Commissioners, Sept. 21, (lowest three) for laying water mains, from (A) W. G. Fritz Co., 69 Main St., West Orange, N. J.; (awarded contract); (B) A. Munday, Plainfield, N. J.; (C) Scott Bros., Easton. Contract for installing the pumping equipment was awarded to the Virginia Machinery & Well Co., 1319 East Main St., Richmond, Va., $1650; for the tank and tower, to the Petroleum Iron Works Co., 25 West 43rd St., New York City, $6310. The unit bids for laying the mains are as follows:

	A	B	C
5,025 ft. excav., backfilling and laying 8-in. pipe and fittings	$0.45	$0.50	$0.50
9,300 ft. 6-in. pipe	.37	.35	.49
Setting fire hydrants (lump sum)	8.00	15.00	1.50
100 topping and installing corporation cocks, etc.	1.50	.75	.75
100 setting curb boxes	1.00	.30	.60
1,050 ft. excav., backfilling and laying 2-in. pipe and fittings	.30	.30	.35
3,000 ft. 1¼- and 2-in. pipe, galvanized, pre-caulked	.30	.30	.33
2,000 ft. ¾-in. service pipe	.25	.25	.40
20 sections timber foundations	11.00	6.00	3.00
50 cu.yd. extra excav.	2.00	1.00	1.00
Well chamber (lump sum)	105.00	75.00	150.00
Totals	$8,421	$8,447	$9,683

Engineering News-Record, Issue of October 13, 1927.

Transit Extension—Boston, Mass.

Bids were opened by Transit Department, 1 Beacon St., Aug. 31, for extension of rapid transit system, Sect. No. 3, from (A) C. R. Construction Co., 75 Bradeen St., Roslindale, (awarded contract); (B) Joseph A. Singarella, 110 High St.; (C) Coleman Bros., Inc., 245 State St.; (D) M. F. Gaddis, 6 Beacon St.; (E) A. G. Tomasello & Son, Inc., 250 Stuart St.; (F) J. H. Fannon, 39 Powder House Terrace, Somerville; (G) J. McCourt Co., 910 Huntington Ave.; (H) J. C. Coleman & Sons Co., 1620 Tremont St. The unit bids are as follows:

	A	B	C	D	E	F	G	H
20,000 cu.yd. earth excav.	$0.80	$1.60	$2.00	$1.25	$1.10	$2.50	$1.65	$2.50
500 cu.yd. rock excav.	.80	7.00	4.00	7.00	5.00	5.00	6.00	2.50
35,000 cu.yd. gravel borrow	.80	1.40	1.60	1.20	1.00	1.75	1.65	2.00
1,500 cu.yd. masonry removed	.80	5.00	16.00	7.00	5.00	8.00	5.00	10.00
9,000 cu.yd. concrete (rein.)	20.50	18.50	19.00	22.00	20.00	18.00	23.00	20.00
1,000 cu.yd. concrete (unrein.)	20.50	18.00	13.00	21.00	15.00	18.00	23.00	16.00
200 cu.yd. small stone concrete	30.00	20.00	27.00	22.00	20.00	21.00	28.00	20.00
1,000 cu.yd. cinder concrete	5.00	6.00	7.00	8.00	10.00	12.00	12.00	18.00
150 cu.yd. mortar	30.00	30.00	20.00	22.00	30.00	20.00	28.00	20.00
4,000 sq.yd. concrete finish	.10	.45	.40	.25	.50	.40	.25	.75
100 sq.yd. granolithic finish	2.00	3.50	1.00	1.00	1.00	1.00	1.50	2.00
500 sq.yd. granolithic walks	3.00	4.50	2.75	3.60	3.00	3.00	4.00	3.00
150 cu.yd. brick masonry	30.00	30.00	40.00	50.00	40.00	40.00	40.00	50.00
3,000 lin.ft. 4 in.–6 in.–8 in. vitrified pipe	.80	.75	.75	1.00	1.00	.80	1.00	1.00
1,000 lin.ft. 10 in.–12 in. vitrified pipe	1.00	1.00	1.00	1.50	1.10	1.25	2.00	2.00
300 lin.ft. 15 in.–24 in. vitrified pipe	3.00	3.00	2.00	3.00	2.00	3.00	3.00	3.00
450 tons reinforcing rods, etc.	83.00	85.00	85.00	90.00	100.00	90.00	100.00	80.00
850 tons structural steel	25.00	30.00	30.00	15.00	25.00	30.00	40.00	30.00
25,000 sq.ft. wire cloth	.10	.10	.09	.12	.10	.10	.15	.15
100 sq.yd. plaster	.90	2.00	1.00	.50	2.00	1.00	1.00	1.00
50 cu.yd. grout, 1–1½	5.00	40.00	20.00	10.00	25.00	25.00	20.00	25.00
50 cu.yd. grout, 1–4	5.00	40.00	15.00	10.00	20.00	18.00	10.00	20.00
7,500 sq.yd. waterproofing	.60	1.00	.80	.50	.75	.75	1.00	.75
Incidental work, risks, supporting structures, etc., (lump sum)	15,000.00	10,000.00	2,000.00	100.00	500.00	5,000.00	16,000.00	25,000.00
Removing Peabody Square bridge timbers and flooring (lump sum)	11,000.00	5,000.00	2,000.00	1,500.00	2,000.00	1,000.00	10,000.00	5,000.00
10,000 sq.yd. wall finish rubbing	.40	.90	.70	.50	1.00	.80	.50	1.00
31,000 lin.ft. conduit lines, 1 to 12 ducts	.25	.40	.50	.30	.50	.50	.40	1.00
8 power manholes, Type I	200.00	200.00	225.00	200.00	200.00	200.00	250.00	200.00
2 power manholes, Type II	300.00	200.00	300.00	400.00	200.00	225.00	250.00	300.00
Signal manhole with signal foundation Type III	250.00	250.00	250.00	250.00	200.00	250.00	250.00	300.00
10 signal foundations, Type IV	100.00	50.00	70.00	60.00	50.00	75.00	100.00	200.00
3 signal foundations, Type V	100.00	50.00	80.00	60.00	100.00	75.00	100.00	250.00
3 signal and power manholes, Type VI	25.00	350.00	225.00	40.00	100.00	250.00	50.00	200.00
100 sq.yd. granite block gutters	5.00	7.00	5.00	6.00	4.00	5.00	6.00	4.50
100 lin.ft. granite edgestone	2.00	2.50	1.70	3.00	3.00	2.00	3.00	2.50
200 lin.ft. resetting edgestone	.50	.75	.50	.50	1.00	.75	.60	.75
Preparing site (lump sum)	15,000.00	5,000.00	1,000.00	30,000.00	40,000.00	5,000.00	10,000.00	10,000.00
Time to complete, days	300	350	300	365	365	400	350	300
Totals	$401,565	$429,425	$441,710	$444,000	$444,625	$455,450	$519,570	$537,475

Engineering News-Record, Issue of October 13, 1927.

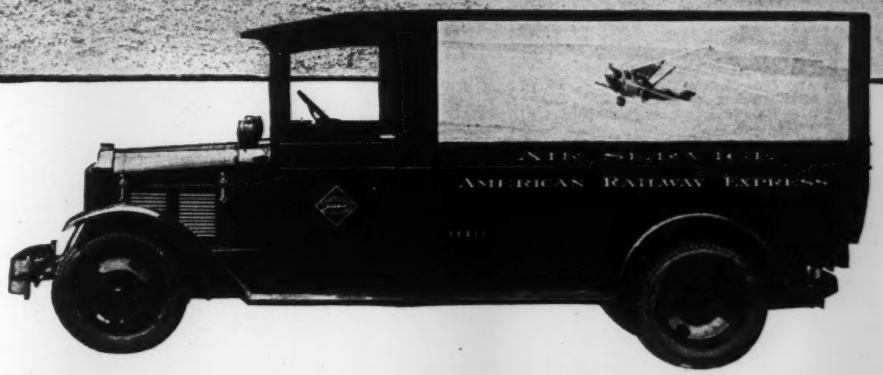
Constr. News page 200

UNIT PRICES *Continued on page 200a*

A PROMISE has been fulfilled! The American Railway Express Company recently inaugurated a transcontinental air service for express shipments. New York and San Francisco are connected by aerial express on a 32½ hour schedule.

Another promise is being fulfilled. At the terminals, collections and deliveries are being handled in Diamond T trucks equipped with Hercules Engines. Chosen for known reliability, speed, economy, and utmost endurance, there will be no failure of power supply. And Hercules four-cylinder or six-cylinder engines or power units, on any commercial or industrial job inevitably outperform any comparable power.

HERCULES MOTORS CORPORATION, Canton, Ohio



Hercules

ENGINES

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Installation of Tracks—New York

Bids were opened by Board of Transportation, 49 Lafayette St., Sept. 9, for installation of tracks for parts of 14th Street-Eastern Line, Route 8, Sects. 6-A-1, 6-E-2 and 6-F, (Brooklyn and Queens Boroughs) from (A) McElroy & Kerwin, 187 Joralemon St., Brooklyn, (awarded contract); (B) B. T. and J. J. Mack, Inc.; (C) Thomas Crimmins Contg. Co. The unit bids are as follows:

	A	B	C
100 cu.yd. excavation	$5.00	$3.50	$6.00
1,025 cu.yd. fill in place	1.50	1.00	.50
4,500 cu.yd. 1:2:3.85 conc. masonry in place	14.50	18.00	18.50
1,725 sq.ft. rubbing surface of concrete	.15	.35	.06
180 sq.ft. waterproofing, one ply	1.25	2.50	1.50
25 cu.yd. waterproofing brick laid in asphalt	50.00	50.00	70.00
3,300 duct.ft. tunnel ducts	.22	.50	.30
3,200 duct.ft. railroad ducts	.41	.50	.50
16 ton riveted steel, erected and painted	97.00	100.00	80.00
2 ton steel rods built in conc.	150.00	130.00	180.00
1 ton furnishing and installing cast iron handhole frames and covers and grating in place, complete	250.00	220.00	250.00
Street surface restored in Bushwick Avenue as follows:			
135 sq.yd. (a) curb lines	.70	5.00	4.00
600 sq.yd. (b) asphalt pavement between curb lines	6.00	7.00	6.50
11,200 sq.ft. constructing and finishing station platform	.30	.30	.55
250 lin.ft. 1-in. electric conduits wrought iron or steel	.50	.75	.60
5 conduit fittings with removable covers in place, complete	1.00	2.50	2.00
10 C. I. outlet boxes including covers in place, complete (4x4x2)	2.00	2.50	2.00
3 C. I. pull boxes, including covers in place, complete	7.00	2.50	2.00
358 lin.ft. removal of surface track, etc. Montrose Ave. bet. sta. 1+10 and 4+68, complete	11.25	12.50	6.25
Removal of ramp track stru., complete (lump sum)	5,700.00	4,000.00	10,800.00
2,000 lb. checkered steel plate doors and frames with appurtenances for tunnel duct manholes in place, complete	.22	.35	.25
550 lin.ft. relocation of electric street surface railroad, incl. all incident work	4.60	5.00	7.00
Removal and relocation of gas pipes, as follows:			
175 lin.ft. (a) 4 in.	2.00	5.00	3.50
100 lin.ft. (b) 20 in.	15.00	15.00	12.00
900 lin ft. platform edge construction, complete, in place	.90	3.50	.35
900 lin.ft. furnishing, delivering and installing W.I. pipe handrail complete	1.80	1.75	1.80
18 M.F.B.M. installing plank walks, complete	40.00	50.00	50.00
Furnishing and installing anti-creepers, complete, as follows:			
570 (a) type III track	.50	.40	.30
3,360 (b) type II track	.40	.40	.30
Installation of type II track, exclusive of concrete, as follows:			
7,500 lin.ft. (a) tan. and curves of 2,300 ft. radius and over	2.10	2.25	2.00
2,400 lin.ft. (b) curves of 700 ft. radius and over and less than 2,300 ft. radius	3.40	2.80	4.25
1,600 lin.ft. (c) curves of less than 700 ft. radius	4.25	3.25	4.50
275 lin.ft. removal of pit track and substitution of type II track in Montrose Ave. sta., complete	3.25	12.00	3.30
Installation of type III, complete, as follows:			
855 lin.ft. (a) Tan. and curves (not superel) of more than 2,300 ft. radius and over	2.40	5.00	4.00
910 lin.ft. (b) curves of 700 ft. radius and over and less than 2,300 ft. radius	3.75	6.00	6.00
240 lin.ft. (c) superelevated tangents and curves of more than 2,300 tf. radius	4.50	6.50	6.00
Removal and disposal of temp. wooden floors, partitions, etc. (lump sum)	200.00	1,000.00	250.00
2,100 lin.ft. furnishing, delivering and installing 100 lb. rail for inside guard and emergency rails, complete with appurtenances	.90	.53	1.25
Totals	$139,951	$165,476	$171,468

Engineering News-Record, Issue of October 13, 1927.

Bridge—Huntington, Mass.

Bids were opened by Department of Public Works, Division of Highways, Boston, Aug. 9, (lowest three) for constructing bridge and approaches in town of Huntington, from (A) Adams & Ruxton Constr. Co., Springfield, (awarded contract); (B) C. B. Lindholm, Pittsfield; (C) Engineering Service & Constr. Co., Boston. The unit bids are as follows:

	A	B	C
13,000 cu.yd. roadway earth excav.	$0.75	$1.00	$0.75
950 cu.yd. bridge excav.	4.25	5.00	5.00
80 cu.yd. ledge excav.	5.00	5.00	3.00
231 cu.yd. plain conc. masonry	20.00	22.00	26.30
275 cu.yd. reinf. conc. masonry	25.00	26.00	29.00
225 gal. bituminous material, asphalt	.25	.20	.50
100 lin.ft. 12 in. rein. conc. pipe	1.75	1.50	1.50
100 lin.ft. fencing	.75	.70	.65
900 cu.yd. stone filling	2.25	2.50	2.50
17 bounds	5.00	5.00	5.00
100 ton bituminous conc. surfacing, Type D.	14.00	15.00	12.00
100 cu.yd. rip rap	2.75	2.50	4.00
15 removal trees	15.00	10.00	10.00
600 cu.yd. gravel borrow	.85	1.00	1.15
160 cu.yd. stripping gravel pits	.20	.20	.20
950 cu.yd. gravel surfacing	1.25	2.00	.15
30 cu.yd. conc. masonry for bridge floor	80.00	.....	100.00
1,275 cu.yd. rubble conc. masonry	12.25	14.00	15.50
660 lin.ft. stock fence	.25	.25	.35
2 rounds rem. and reset	7.00	5.00	5.00
18 MFBM lumber sheeting	90.00	.01	150.00
3,400 lin.ft. reform and trim shoulders	.05	.10	.05
73,500 lb. reinf. conc. str.	.05	.05	.055
450 gal. asphalt for bridge floor	.50	.50	.50
75 cu.yd. dry rubble masonry	7.00	8.00	6.00
1,000 lin.ft. cable guard rail	.75	1.00	.90
50 cu.yd. trench excav.	2.50	1.00	1.25
580,000 lb. structural steel	.068	.062	.064
6 scuppers with outlets	30.00	30.00	55.00
Totals	$97,336	$97,449	$104,900

Engineering News-Record, Issue of October 13, 1927.

Irrigation—Lovelock, Nev.

Bids were opened by Lovelock Irrigation District for constructing dam, earth fill and control works, from (A) A. G. Pollock, Forum Bldg., Sacramento, Calif.; (B) W. A. Bechtel Co.; (C) Utah Constr. Co.; (D) MacDonald & Kahn; last three contractors of San Francisco. The unit bids are as follows:

	A	B	C	D
400 yd. 3,500 lb. conc.	$25.00	$25.00	$27.00	$26.80
10,000 yd. 2,500 lb. conc.	20.00	22.60	24.00	25.10
150 yd. 1,500 lb. conc.	30.00	22.00	24.00	24.60
18,000 sq.yd. Laykold	2.75	2.90	2.90	2.55
6,000 sq.yd. conc. material	6.25	7.00	7.00	6.15
350,000 cu.yd. fill, dry, placed, roll and fill method	.42	.555	.65	.91
450,000 cu.yd. fill by suction dredge and method using river bottom materials	.36	....	....	....
50,000 cu.yd. cut	.40	.70	.75	1.00
90,000 cu.yd. clay	.50	.75	.75	1.00
4 emergency gates, ea.	1,000.00	750.00	600.00	2,460.00
42,000 lb. place gates	.10	.05	.04	.038
5,200 ft. outlet pipe	12.00	12.80	11.00	11.00
1,360 lb. trash racks	.15	.125	.12	.185
30,000 ft. steel pile	2.40	2.00	2.00	2.70
1,360 ft. conc. pile	3.00	6.00	5.00	5.00
6,000 ft. gravel drain	.75	1.00	.60	.77
2,000 ft. tile drain	.50	1.25	.50	.77
100 ladder rungs	1.00	1.00	.50	.92
1 flash board (lump sum)	500.00	1,100.00	600.00	835.00
Bronze tablet (lump sum)	200.00	100.00	250.00	90.00
Totals Contr. No. 1	$610,524	$720,186	$763,363	.....
Totals Contr. No. 2	$621,024	.....	.....	.....
Totals Contr. No. 7	.....	.....	.....	$919,094

Contract No. 1—Dry placed, roll and wet method with clay mixing facing, payment in cash.

Contract No. 2—Same as No. 1, except main body of fill to be placed by suction dredge using river bottom materials, payment in cash.

Contract No. 7—Same as No. 1 except contractor shall purchase entire issue of bonds for cash in the amount of $1,287,000 and payment for performance of contract to be made by the District in cash.

Engineering News-Record, Issue of October 13, 1927.

Constr. News pags 200a